

SONY®

EDITING CONTROL UNIT

BVE-700

HD SWITCHER BOARD

BKE-701

MAINTENANCE MANUAL

1st Edition

Serial No. 10001 and Higher : BVE-700

Serial No. 10001 and Higher : BKE-701

警告

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

Attention-when the product is installed in Rack:

1. Prevention against overloading of branch circuit

When this product is installed in a rack and is supplied power from an outlet on the rack, please make sure that the rack does not overload the supply circuit.

2. Providing protective earth

When this product is installed in a rack and is supplied power from an outlet on the rack, please confirm that the outlet is provided with a suitable protective earth connection.

3. Internal air ambient temperature of the rack

When this product is installed in a rack, please make sure that the internal air ambient temperature of the rack is within the specified limit of this product.

4. Prevention against achieving hazardous condition due to uneven mechanical loading

When this product is installed in a rack, please make sure that the rack does not achieve hazardous condition due to uneven mechanical loading.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual of Editing Control Unit BVE-700 and HD Switcher Board BKE-701.

This manual is intended for use by trained system and service engineers, and describes the information that premise the service based on components replacement.

Related manuals

Beside this Maintenance Manual, the following manuals are available for the unit.

- **User's Guide (supplied with BVE-700)**

This manual describes the application and operation of the unit.

- **Operation Manual (supplied with BVE-700)**

This manual describes the overview, system connection examples, and specifications of the unit.

- **BKE-701 Installation Manual (supplied with BKE-701)**

This manual describes the information related to the installation of the unit.

- **“Semiconductor Pin Assignments” CD-ROM (available on request)**

This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in Communication System Solutions Network Company equipment.

Semiconductors that cannot be searched for on this CD-ROM are listed in the maintenance manual for the corresponding unit. The maintenance manual contains a complete list of all semiconductors and their ID Nos., and thus should be used together with the CD-ROM.

Part number: 9-968-546-XX

Contents

This manual is organized by following sections.

Section 1 Service Overview

Describes the information that is required to install (environment, external dimensions, etc.), fundamental area of the information that is required to service (removal of cabinet and locations of main part), replacement of flash memory and troubleshooting.

Section 2 Electrical Alignment

Describes the adjustments required when the components have been replaced.

Section 3 Spare Parts

Describes the spare parts list and exploded views.

Section 4 Semiconductor Pin Assignments

Describes the pin assignments of semiconductor.

Section 5 Block Diagrams

Describes the overall block diagram and circuit description.

Section 6 Board Layouts

Describes the board layout for circuit boards.

Section 7 Schematic Diagrams

Describes the schematic diagram for circuit boards and frame wiring.

Trademarks

Trademarks and registered trademarks used in this manual are follows.

- Windows is a registered trademark of Microsoft Corporation.
- IBM is a registered trademark of International Business Machine, Inc.
- Ethernet is a registered trademark of Xerox Corporation.

Section 1

Service Overview

1-1. Installation

1-1-1. Operating Environment

Operating guaranteed temperature :	+5 °C to +35 °C
Performnace guaranteed temperature :	+10 °C to +30 °C
Operating humidity :	10 % to 90 % (relative humidity)
Storage temperature :	-20 °C to +60 °C
Mass :	10 kg

Prohibited locations

- Areas where the unit will be exposed to direct sunlight or any other strong lights.
- Dusty areas
- Areas where it is subject to vibration.
- Areas with strong electric or magnetic fields.
- Areas near heat sources.
- Areas where is subjected to electricity noise.
- Areas where is subjected to static electricity noise.

Ventilation

The inside of the BVE-700 is cooled by a fan (rear and sides).

The power supply can be damaged if the exhaust vent (rear panel) and air intake (front panel) are blocked or the fan is stopped.

Therefore, leave a blank space of more than 10 cm in the front and back of the BVE-700.

1-1-2. Power Supply

1. Power specifications

A switching regulator is used for the power supply of this unit. The voltage within the range of 100 V to 240 V can be used without changing the supply voltage.

Power requirements : AC 100 to 240 V \pm 10 %
50/60 Hz

Current consumption : Maximum 2.5 A
(with all optional boards installed)

Note

As the inrush current at turn-on is the maximum 25 A (at 100 V/50 A (at 200 V), the capacity of the AC power must be commensurate in it.

If the capacity of the AC power is not the adequately large, the breaker of the AC power at the supply side will operate or the unit will abnormally operate.

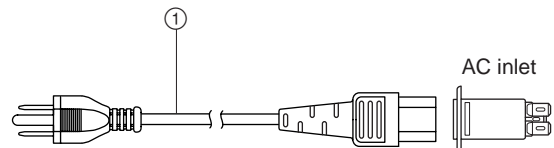
2. Recommended Power Cord

WARNING

- The power cord is not supplied with the BVE-700. Be sure to use the power cord that is applicable to places in the area.
To avoid a fire or an electric shock, be sure to use the designated power cord.
- Do not damage the power cord.
Otherwise, a fire or electric shock may result.

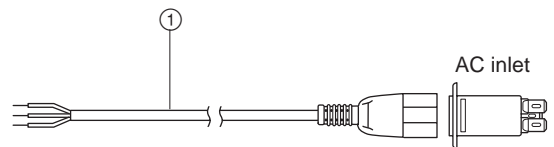
Required Parts for the U.S.A. and Canada

① Power cord : Δ 1-551-812-11



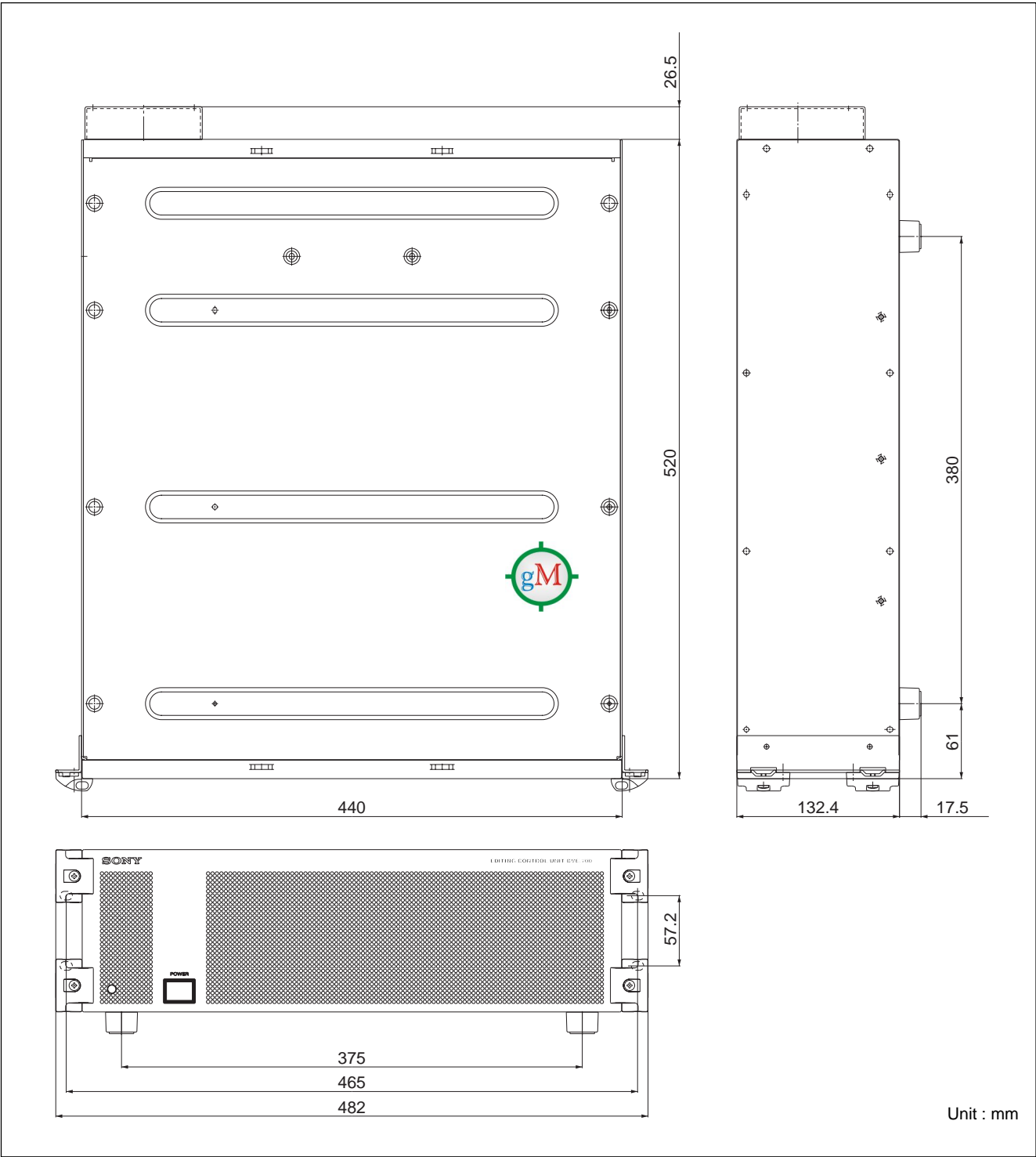
Required Parts for Europe

① Power cord : Δ 1-782-929-21

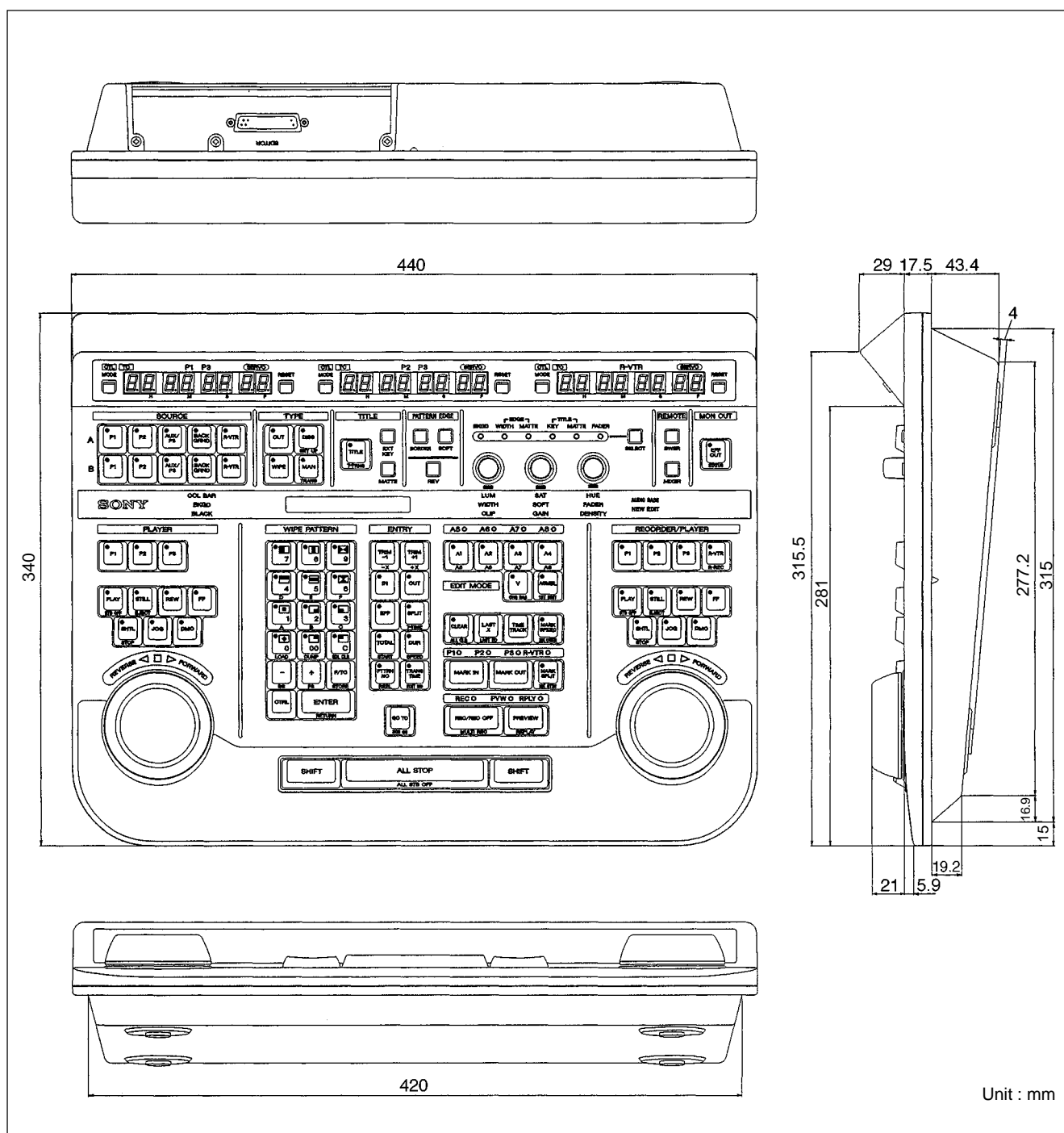


1-1-3. Installation Space

Processor unit



Control panel unit



1-1-4. Matching Connectors and Cables

Use the following connectors, cables, or equivalents when connecting cables to the unit.

Panel indication	Connector name	Matching connector and cable	
		Name	Sony part No.
Processor unit			
PLAYER-1	D-sub 9-pin, Female	D-sub 9-pin, Male	
PLAYER-2		Connector 9-pin, Male	1-560-651-00*1
PLAYER-3		Junction Shell 9-pin	1-561-749-00
RECORDER			
MIXER			
SWER			
Processor unit			
EDL	D-sub 9-pin, Male	D-sub 9-pin, Female	
		Connector 9-pin, Female	1-563-815-21
		Junction Shell 9-pin	1-561-749-00
Processor unit			
GPI	D-sub 15-pin, Female	D-sub 15-pin, Male	
		Connector 15-pin, Male	1-564-600-11*1
		Junction Shell 15-pin	1-563-376-11
Processor unit			
SDI INPUT	BNC, 75 Ω	BNC, 75 Ω	
SDI OUTPUT		5C-FB coaxial cable*3	
Processor unit			
REF VIDEO	BNC, 75 Ω	BNC, 75 Ω	
		5C-2V coaxial cable*4	
Processor unit/Control panel unit			
PANEL	D-sub 25-pin, Female	D-sub 25-pin, Male	
		Connector 25-pin, Male	1-560-904-11*1
		Junction Shell 25-pin	1-563-377-11
Processor unit			
NETWORK	RJ-45 modular jack*2	—	—

*1 : To use plugs, the following crimp contacts are required.

AWG #18 to #22 : 1-566-493-21

AWG #22 to #24 : 1-564-774-11

AWG #24 to #30 : 1-564-775-11

*2 : Conforms to the IEEE 802.3 Ethernet 10BASE-T/100BASE-TX standards.

*3 : It is recommend to use the 5C-FB coaxial cable of Fujikura America Inc. or Fujikura Europe Ltd.

*4 : It is recommend to use the 5C-2V coaxial cable of Fujikura America Inc. or Fujikura Europe Ltd.

1-1-5. Input/Output Signals of Connectors

The input/output signals of the connectors at the rear panel are as follows.

• Processor unit

PLAYER-1

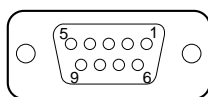
PLAYER-2

PLAYER-3

RECORDER

MIXER

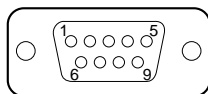
SWER : RS-422A (D-sub 9-pin, Female)



— EXT VIEW —

Pin No.	Signal	Function
1	GND	Ground
2	RX-	Received data (-)
3	TX+	Transmitted data (+)
4	GND	Ground
5	—	No Connection
6	GND	Ground
7	RX+	Received data (+)
8	TX-	Transmitted data (-)
9	—	No Connection

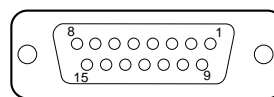
EDL : RS-232C (D-sub 9-pin, Male)



— EXT VIEW —

Pin No.	Signal	Function
1	—	No Connection
2	RXD	Received data
3	TXD	Transmitted data
4	—	No Connection
5	GND	Ground
6	—	No Connection
7	RTS	(Not used at present)
8	CTS	(Not used at present)
9	—	No Connection

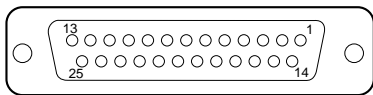
GPI : D-sub 15-pin, Female



— EXT VIEW —

Pin No.	Signal	Function
1	GND	Ground
2	OUT-1A	Relay output-1A
3	OUT-2A	Relay output-2A
4	OUT-3 (TTL)	Open collector output-3
5	OUT-4 (TTL)	Open collector output-4
6	IN-1 (TTL)	Input-1
7	IN-3 (TTL)	Input-3
8	GND	Ground
9	OUT-1B	Relay output-1B
10	OUT-2B	Relay output-2B
11	—	No Connection
12	—	No Connection
13	GND	Ground
14	IN-2 (TTL)	Input-2
15	IN-4 (TTL)	Input-4

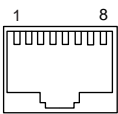
PANEL : D-sub 25-pin, Female



— EXT VIEW —

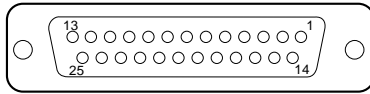
Pin No.	Signal	Function
1	GND	Ground
2	12 V	Panel Power Supply
3	RX+	Received data (+)
4	GND	Ground
5	TX-	Transmitted data (-)
6	12 V	Panel Power Supply
7	12 V	Panel Power Supply
8	USB-	Universal Serial Bus (-)
9	GND	Ground
10	GND	Ground
11	GND	Ground
12	GND	Ground
13	GND	Ground
14	12 V	Panel Power Supply
15	12 V	Panel Power Supply
16	RX-	Received data (-)
17	GND	Ground
18	TX+	Transmitted data (+)
19	12 V	Panel Power Supply
20	GND	Ground
21	USB+	Universal Serial Bus (+)
22	GND	Ground
23	12 V	Panel Power Supply
24	12 V	Panel Power Supply
25	GND	Ground

NETWORK : 10BASE-T/100BASE-TX (8-pin, Modular jack)



— EXT VIEW —

Pin No.	Signal	Function
1	TX+	Transmitted data (+)
2	TX-	Transmitted data (-)
3	RX+	Received data (+)
4	-	No Connection
5	-	No Connection
6	RX-	Received data (-)
7	-	No Connection
8	-	No Connection

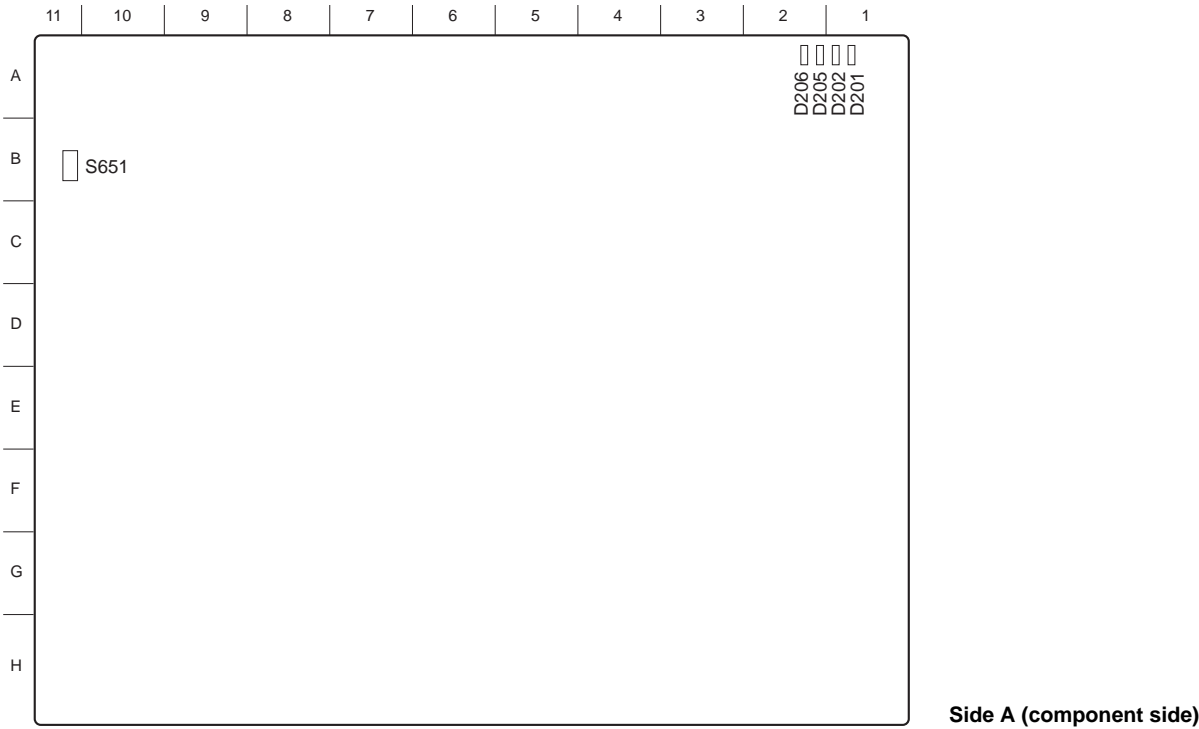
• Control panel unit**PANEL** : D-sub 25-pin, Female

— EXT VIEW —

Pin No.	Signal	Function
1	GND	Ground
2	12 V	Panel Power Supply
3	TX+	Transmitted data (+)
4	GND	Ground
5	RX-	Received data (-)
6	12 V	Panel Power Supply
7	12 V	Panel Power Supply
8	USB-	Universal Serial Bus (-)
9	GND	Ground
10	GND	Ground
11	GND	Ground
12	GND	Ground
13	GND	Ground
14	12 V	Panel Power Supply
15	12 V	Panel Power Supply
16	TX-	Transmitted data (-)
17	GND	Ground
18	RX+	Received data (+)
19	12 V	Panel Power Supply
20	GND	Ground
21	USB+	Universal Serial Bus (+)
22	GND	Ground
23	12 V	Panel Power Supply
24	12 V	Panel Power Supply
25	GND	Ground

1-1-6. Switch Settings on Boards and LED Description

1. CKG-27 board (BVE-700)



Switch

Note

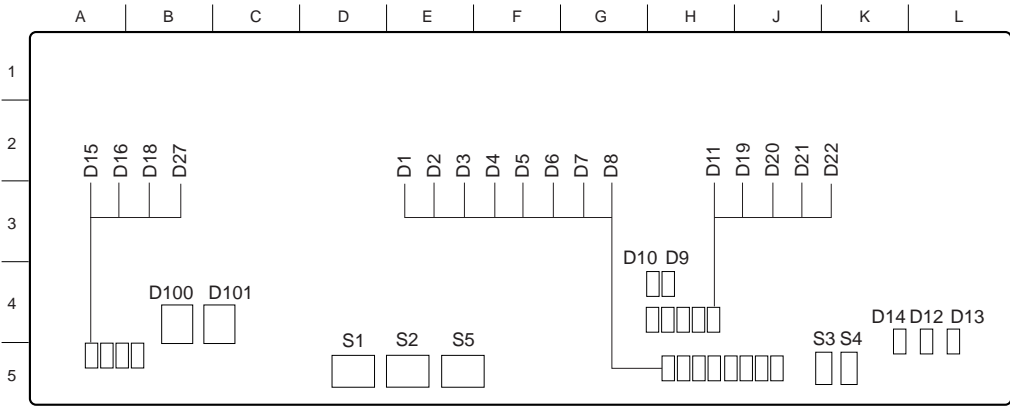
Do not change the setting of the “Factory use” switches.

Ref. No.	Address	Name	Function	Factory setting
S651	(B-11)	–	Factory use	<div><div>ON</div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div><div>1 2 3 4 5 6 7 8</div><div>Factory setting (■ indicates the knob position.)</div></div>

LEDs

Ref. No.	Address	Color	Name	Function	Normal state
D201	(A-1)	Orange	+5 V AOK	Lights up when +5 V power for analog is supplied.	Lights up
D202	(A-1)	Orange	–5 V AOK	Lights up when –5 V power for analog is supplied.	Lights up
D205	(A-2)	Orange	REF OK	Lights up during reference signal input.	Lights up
D206	(A-2)	Orange	PLL OK	Lights up when the internal PLL circuit is locked to reference signal input (during HD only).	Lights up

2. CPU-317A board (BVE-700)



Side A (component side)

Switches

Note

Do not change the setting of the “Factory use” switches.

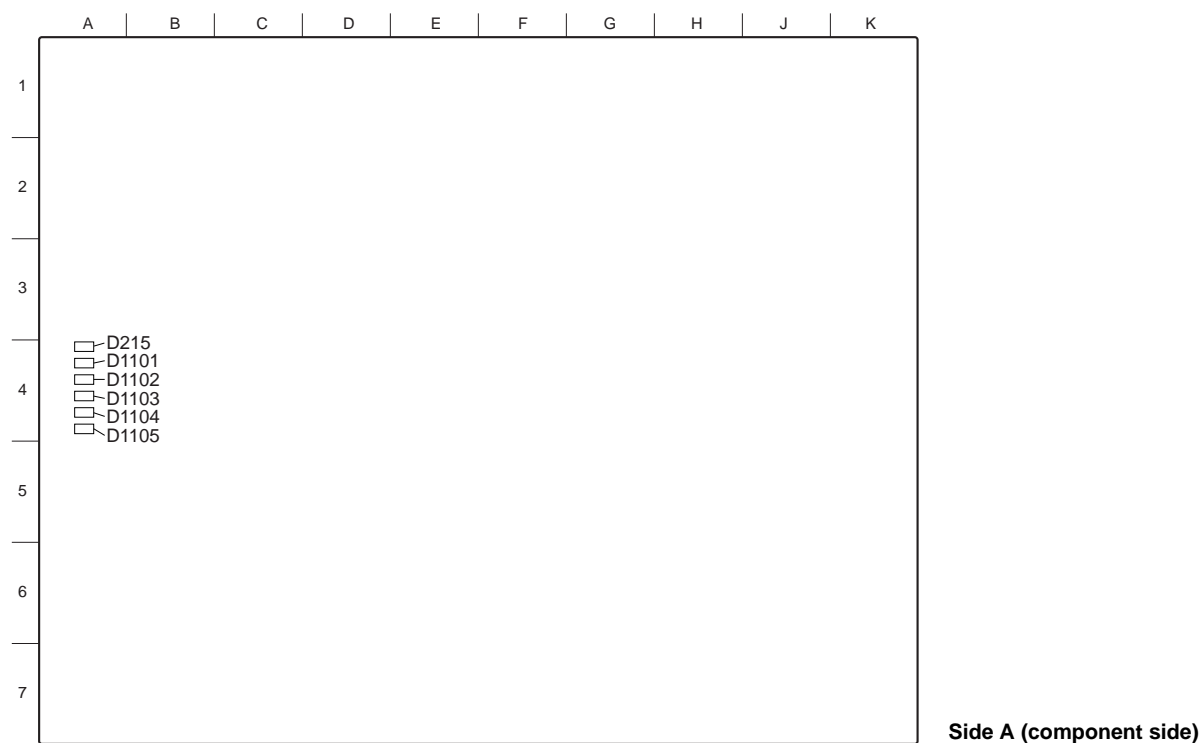
Ref. No.	Address	Name	Function	Factory setting
S1	(D-5)	Mode select switch (1)	<p>Sets the operation mode (1).</p> <p>S1-1 : Sets the operation mode.</p> <p>OPEN : Normal</p> <p>CLOSE : Forced download mode in order to write programs in flash memory (IC26, IC27) attached directly to the CPU board.</p> <p>S1-2 : Sets the operation mode.</p> <p>OPEN : Normal</p> <p>CLOSE : Hardware test mode</p> <p>S1-3 : Factory use</p> <p>S1-4 : Factory use</p> <p>S1-5 : Factory use</p> <p>S1-6 : Factory use</p> <p>S1-7 : Factory use</p> <p>S1-8 : Factory use</p>	<p>Factory setting (■ indicates the knob position.)</p>
S2	(E-5)	Mode select switch (2)	<p>Sets the operation mode (2).</p> <p>S2-1 : Factory use</p> <p>S2-2 : Factory use</p> <p>S2-3 : Factory use</p> <p>S2-4 : Factory use</p> <p>S2-5 : Factory use</p> <p>S2-6 : Factory use</p> <p>S2-7 : Factory use</p> <p>S2-8 : Initializes setup data of backup memory to the state of factory setting.</p> <p>OPEN : Normal</p> <p>CLOSE : Initializing</p>	<p>Factory setting (■ indicates the knob position.)</p>

Ref. No.	Address	Name	Function	Factory setting
S3	(K-5)	ABORT switch	Factory use	—
S4	(K-5)	Reset switch	Resets the BVE-700 and initializes it.	—
S5	(E-5)	Rotary switch	Factory use	 Factory setting

LEDs

Ref. No.	Address	Color	Name	Function	Normal state
D1	(H-5)	—	—	Factory use	Lights off
D2	(H-5)	—	—	Factory use	Lights off
D3	(H-5)	—	—	Factory use	Lights off
D4	(H-5)	—	—	Factory use	Lights off
D5	(H-5)	—	—	Factory use	Lights off
D6	(J-5)	—	—	Factory use	Lights off
D7	(J-5)	—	—	Factory use	Lights off
D8	(J-5)	—	—	Factory use	Lights off
D9	(H-4)	Green	10B	Lights up during 10Base-T connection.	Lights up (when network is not connected)
D10	(H-4)	Green	ACT	Lights up when network is communicated.	Lights off (when network is not connected)
D11	(H-4)	Green	100B	Lights up during 100Base-TX connection.	Lights off (when network is not connected)
D12	(L-4)	Green	RUN	Factory use	Undefined
D13	(L-4)	Red	FAIL	Factory use	Lights off
D14	(K-4)	Orange	VD	Lights up when VIDEO reference signal is supplied to the CPU board. (Flickers a bit.)	Lights up (Flickers a bit.)
D15	(A-5)	Orange	+5V	Lights up when +5 V power for digital is supplied.	Lights up
D16	(A-5)	Orange	+3V	Lights up when +3 V power for digital is supplied.	Lights up
D18	(B-5)	Green	−5V	Lights up when −5 V power for analog is supplied.	Lights up
D19	(H-4)	Green	RX	Lights up during network reception.	Lights off (when network is not connected)
D20	(H-4)	Green	TX	Lights up during network transmission.	Lights off (when network is not connected)
D21	(H-4)	Green	LINK	Lights up when network link is established.	Lights off (when network is not connected)
D22	(H-4)	Green	COLL	Lights up when network collision occurs.	Lights off (when network is not connected)
D27	(B-5)	Orange	+12 V	Lights up when +12 V power is supplied.	Lights up

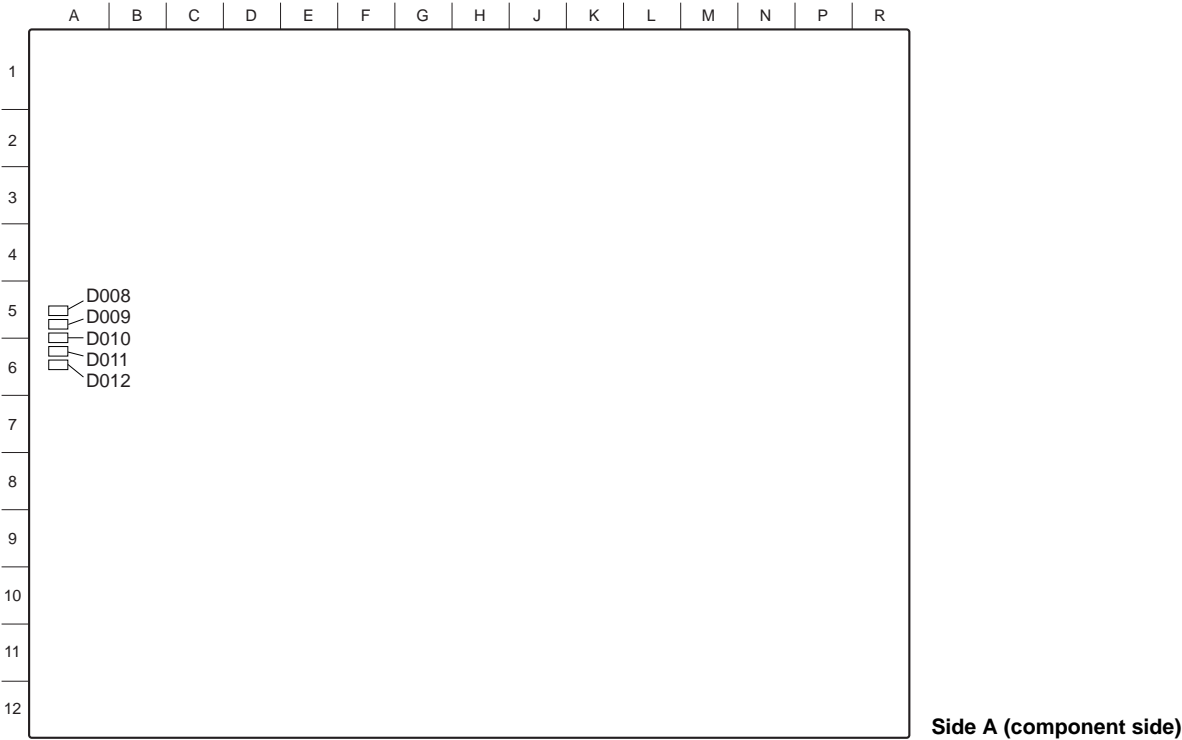
3. IO-193 board (BKE-701)



LEDs

Ref. No.	Address	Color	Name	Function	Normal state
D215	(A-4)	Orange	+12 V OK	Lights up when +12 V power is supplied.	Lights up
D1101	(A-4)	Red	CRCC ERROR INDICATOR (P1)	Lights up when CRCC ERROR occurs in PLAYER-1 input signal.	Lights off
D1102	(A-4)	Red	CRCC ERROR INDICATOR (P2)	Lights up when CRCC ERROR occurs in PLAYER-2 input signal.	Lights off
D1103	(A-4)	Red	CRCC ERROR INDICATOR (AUX)	Lights up when CRCC ERROR occurs in AUX/PLAYER-3 input signal.	Lights off
D1104	(A-4)	Red	CRCC ERROR INDICATOR (REC)	Lights up when CRCC ERROR occurs in RECORDER input signal.	Lights off
D1105	(A-4)	Red	CRCC ERROR INDICATOR (TTL)	Lights up when CRCC ERROR occurs in TITLE input signal.	Lights off

4. MIX-42 board (BKE-701)



LEDs



Ref. No.	Address	Color	Name	Function	Normal state
D008	(A-5)	Orange	+12 V	Lights up when +12 V power is supplied.	Lights up
D009	(A-5)	Orange	+5 V-A	Lights up when +5 V-A power is supplied.	Lights up
D010	(A-6)	Orange	+3.3 V-A	Lights up when +3.3 V-A power is supplied.	Lights up
D011	(A-6)	Orange	+5 V-B	Lights up when +5 V-B power is supplied.	Lights up
D012	(A-6)	Orange	+3.3 V-B	Lights up when +3.3 V-B power is supplied.	Lights up

1-1-7. Rack Mounting

The BVE-700 is mounted in the 19-inch standard rack. To mount the BVE-700 in the rack, use the specified rack mount kit and follow the procedure described below.

Specified rack mount kit : RMM-10

Note

If a rack mount kit other than the specified one is used, the unit may not be mounted in the 19-inch standard rack.

Parts of the RMM-10

- | | |
|--|-------|
| • Rack tools | 2 pcs |
| • Right rack mount adapter | 1 pc |
| • Left rack mount adapter | 1 pc |
| • Rack tool attaching screws
(B4 × 6 : 7-682-560-09) | 6 pcs |
| • Rack tool attaching screws
(B4 × 10 : 7-682-560-10) | 6 pcs |

1. Precautions for rack mounting

WARNING

- To prevent the rack from falling or moving, fix the rack on a flat and steady floor using bolt or others.
If the rack falls due to the weight of the equipment, it may cause death or injury.
- Be sure to use the specified rack mount kit.
If not, injury may result and the equipment may fall due to insufficient strength.
- After rack mounting, be sure to tighten the screws on the rack angle and fix the unit in the rack.
If the screws on the rack angle are not tightened, the unit may slip from the rack and fall, causing injury.

CAUTION

When mounting the unit in the rack, note the following:

- Be sure to mount in the rack with two persons or more.
- Be careful not to catch your fingers or hands in the rack mount rail or others.
- Mount in the rack in a stable position.

Note

If several units are mounted in a rack, it is recommended to install a ventilation fan to prevent temperature rise inside the rack.

2. Rack mounting procedure

This section describes the rack mounting procedure using the RMM-10 rack mount kit.

Note

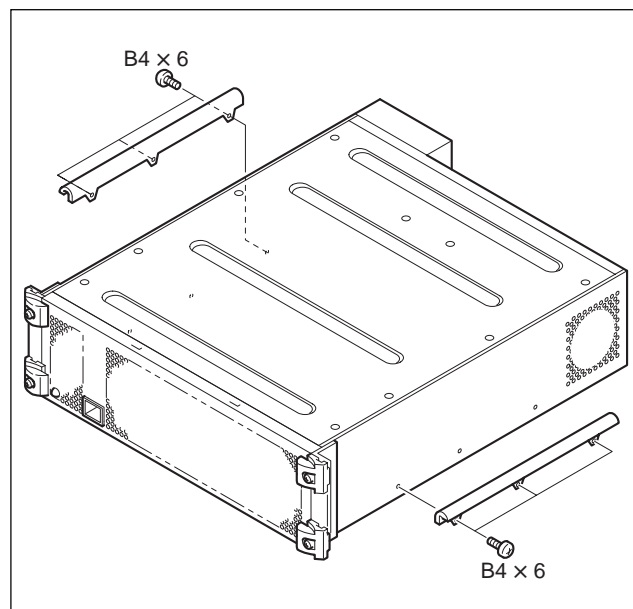
Tighten the screws to the following torque.

Tightening torque : $120 \times 10^{-2} \text{ N} \cdot \text{m}$ {12.2 kgf·cm}

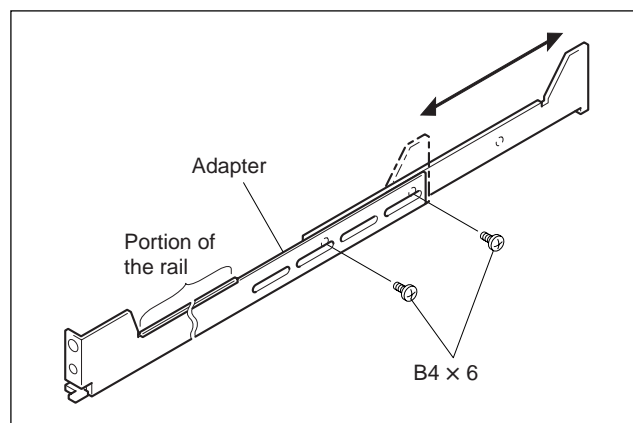
1. Attach the rack tool to the side of the equipment using the specified six screws.

Note

Use B4 × 6 screws.



2. Loosen the screws on the rear of the right and left adapters and adjust the length of the adapter according to the depth of the rack.
(The illustration below shows the left adapter.)

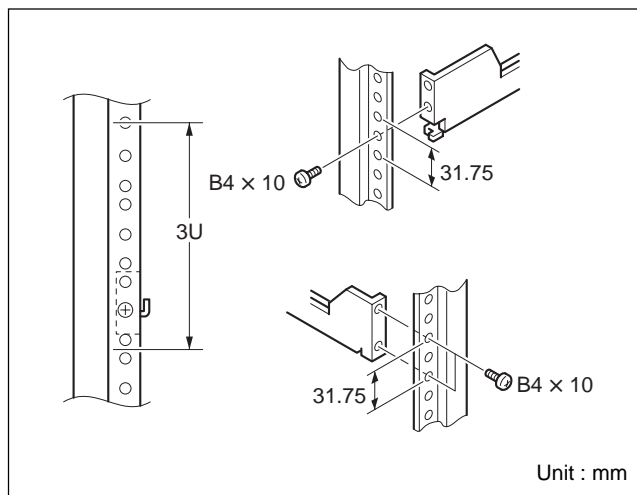


Note

Maximum depth of adapter : 750 mm

Minimum depth of adapter : 595 mm

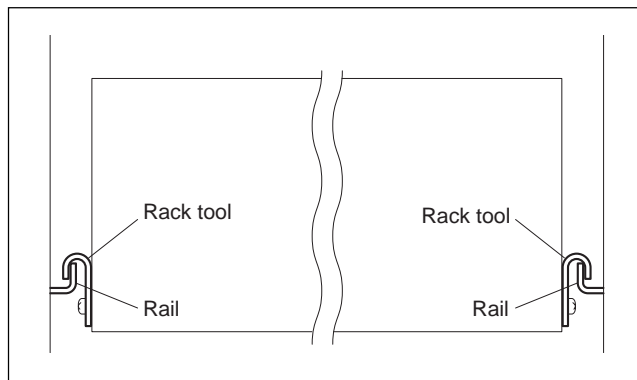
3. Attach the right and left adapters to the rack completely using the specified six screws.
(The illustration below shows the left adapter.)



4. Tighten the screws (B4 × 6 : two screws each on the right and left) for adjusting the length of the adapter completely (the screws that were loosened in step 2).
5. Align the groove of the rack tool at the side of the equipment with the rail, and slide the equipment to the rear.

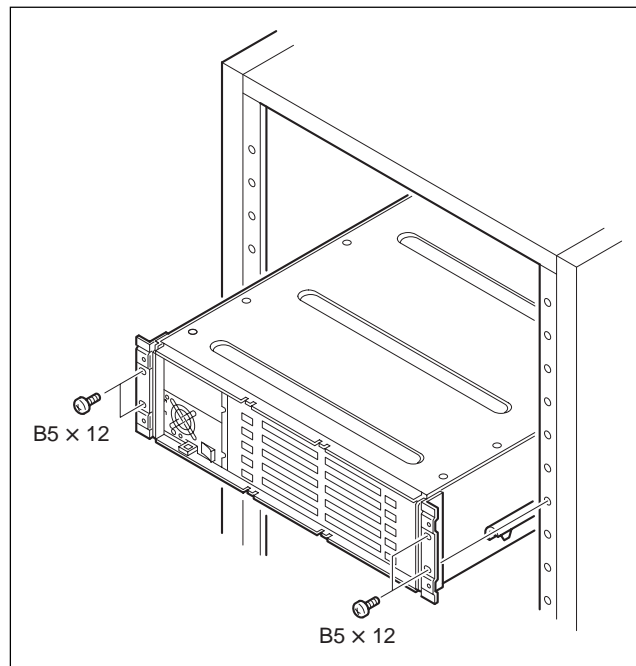
Note

The rack tools are hooked on the rails as shown below.



6. Remove the front panel of the equipment.
(Refer to Section 1-3-1.)

7. Fix the rack angle in the rack using the specified screws.



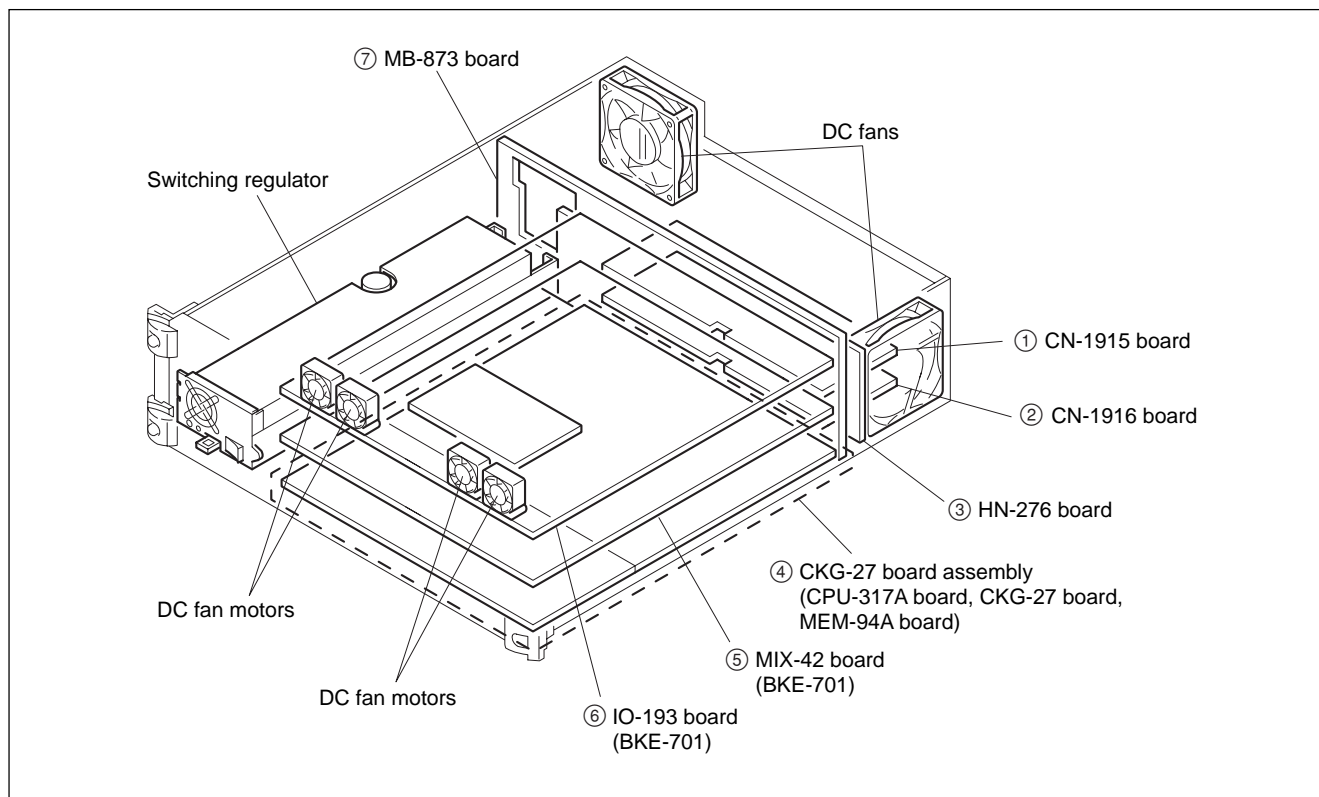
8. Attach the front panel to the equipment.
(Refer to Sections 1-3-1.)

1-1-8. Installing the BKE-701

For the installation procedure, refer to “4. Installation” of the Installation Manual supplied with the BKE-701.

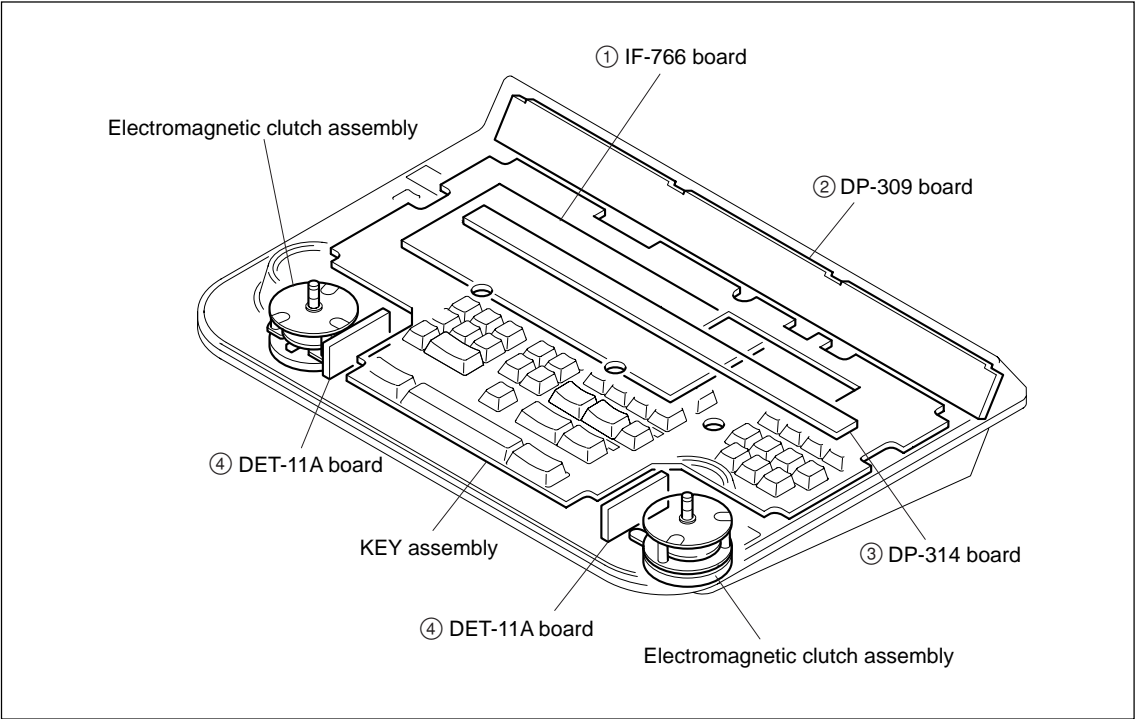
1-2. Locations of Main Parts

Processor unit



No.	Board	Function
①	CN-1915 board	Connector
②	CN-1916 board	Connector
③	HN-276 board	Fan Connector
④	CKG-27 board assembly	CPU Control/Clock Generator
⑤	MIX-42 board	Video Mixer
⑥	IO-193 board	HD I/O signal Processing
⑦	MB-873 board	Motherboard

Control panel unit

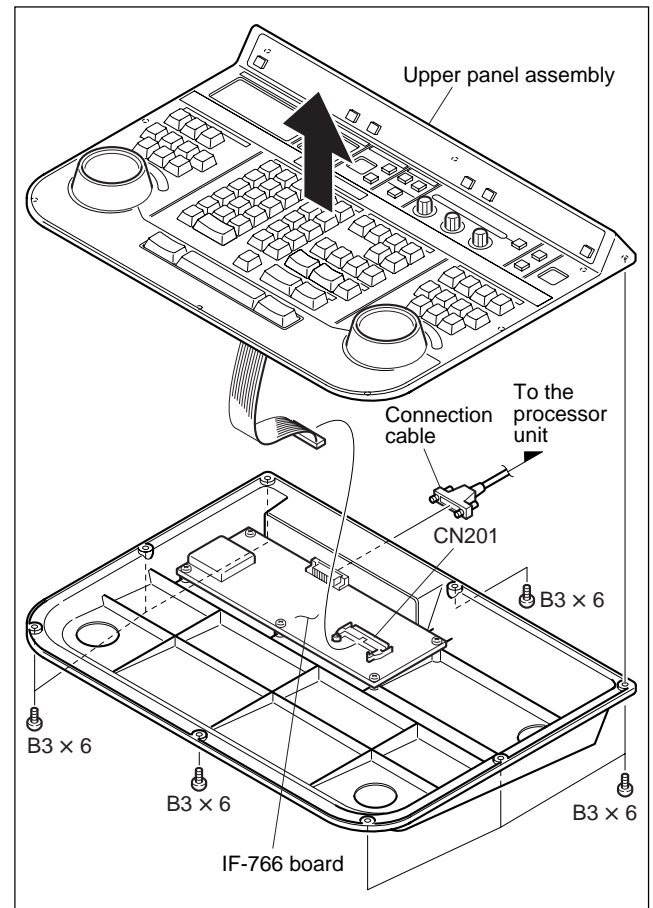


No.	Board	Function
①	IF-766 board	Interface
②	DP-309 board	7SEG LED
③	DP-314 board	ASCII Display/LED
④	DET-11A board	Dial Pulse Waveform Shaping

1-3-2. Removing the Cabinets of the Control Panel Unit

1. Remove the connection cable from the processor unit.
2. Remove the eight screws to remove the upper panel assembly.
3. Disconnect the harness from the connector (CN201) of the IF-766 board.

1. Remove the connection cable from the processor unit.
2. Remove the eight screws to remove the upper panel assembly.
3. Disconnect the harness from the connector (CN201) of the IF-766 board.



-

1-4. Replacing the Main Parts

1-4-1. Switching Regulator

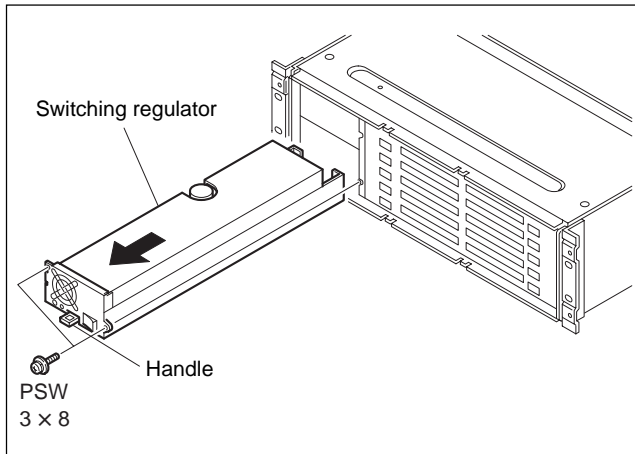
Replaced parts

Part name : Switching regulator

Part No. : 1-468-480-11

Replacement procedure

1. Turn off the main power and disconnect the plug from the outlet.
2. Remove the front panel. (Refer to Section 1-3-1.)
3. Remove the two screws and pull out the switching regulator in the direction of the arrow while holding the handle.



4. Attach a new switching regulator.

Power supply voltage check after replacement

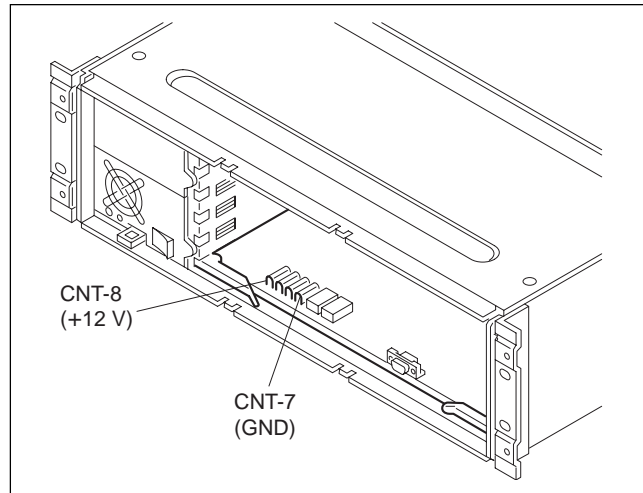
Note

After replacing the power supply unit, be sure to check power supply voltage.

Required equipment : Digital voltmeter

Check procedure

1. Remove the front panel and the board holder. (Refer to “4. Installation” of the Installation Manual supplied with the BKE-701.)
2. Connect the digital voltmeter to the GND terminal (CNT-7) and +12 V terminal (CNT-8) of the CPU-317A board.



3. Confirm that the power supply voltage meets the specifications.

Specifications : $+12.0 \pm 1.2$ V

Procedure after check

1. Remove the digital voltmeter.
2. Attach the board holder and front panel. (Refer to “4. Installation” of the Installation Manual supplied with the BKE-701.)

1-4-2. DC Fan

Note

Three DC fans have been installed in the BVE-700.
Four DC fans have been installed in the BKE-701 (IO-193 board).

1. Replacing the DC Fans of the BVE-700 (Replacing the DC fans of the side panel.)

Notes

It is recommended to replace the DC fan every time the BVE-700 is used for about 30000 hours.

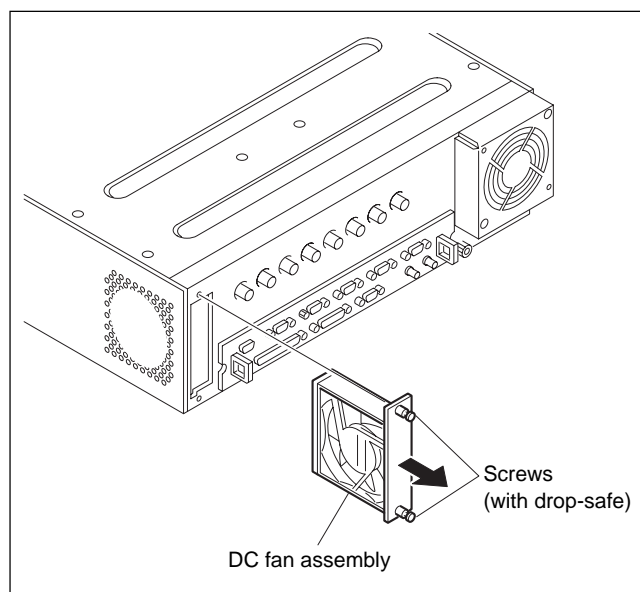
Replacement part

Part name : DC fan

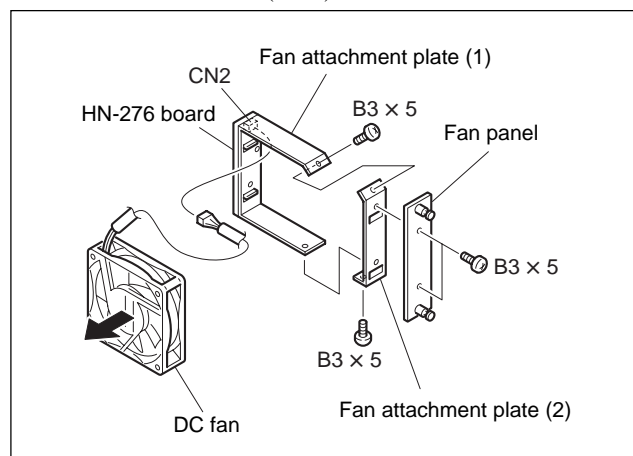
Part No. : 1-698-890-13

Replacement procedure

- After fully loosening the two screws (with drop-safe), remove the DC fan assembly in the direction of the arrow while holding the screws.



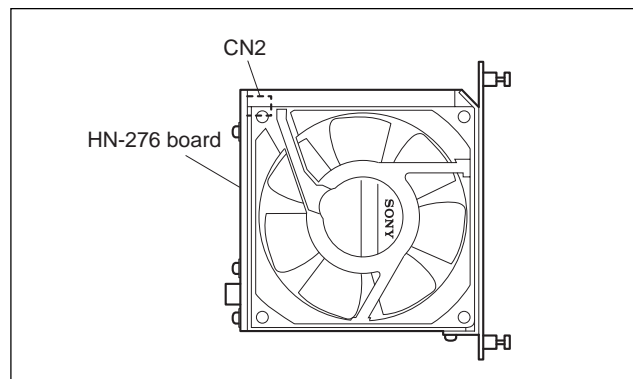
- Remove the two screws and remove the fan panel.
- Remove the two screws and remove the fan attachment plate (2).
- Slide the DC fan in the direction of the arrow from the fan attachment plate (1) and disconnect the harness from the connector (CN2) of the HN-276 board.



- Attach a new DC fan in reverse order of steps 1 to 4.

Note

Attach the DC fan assembly in the direction shown below.



(Replacing the DC fan of the rear panel)

Note

It is recommended to replace the DC fan every time the BVE-700 is used for about 30000 hours.

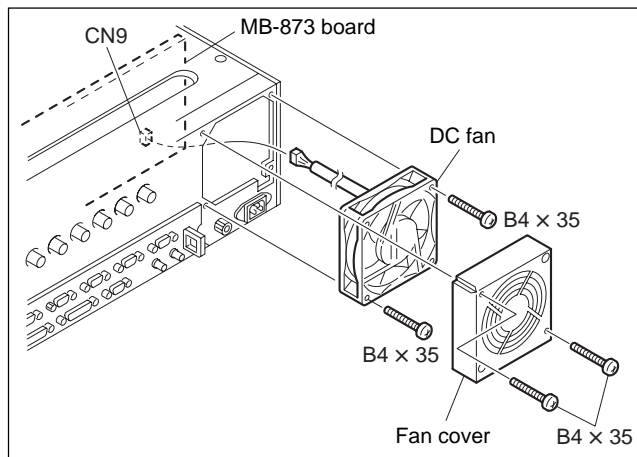
Replacement part

Part name : DC fan

Part No. : 1-698-890-10

Replacement procedure

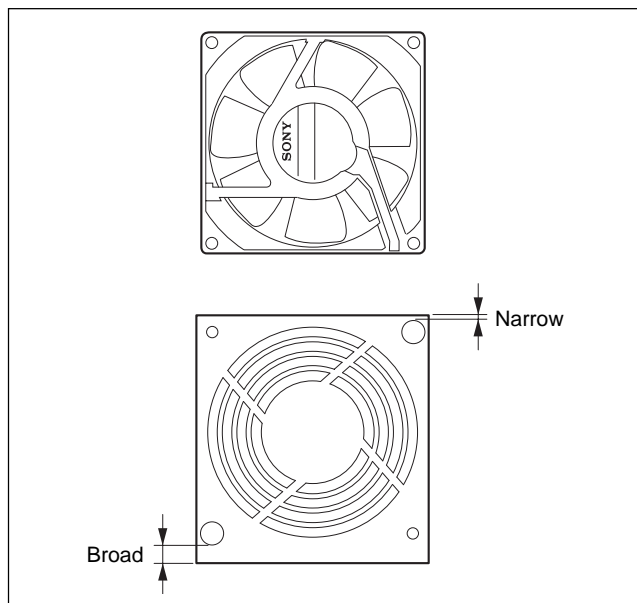
1. Turn off the main power and disconnect the plug from the outlet.
2. Remove the two screws and remove the fan cover.
3. Remove the two screws and the DC fan, and disconnect the harness from the connector (CN9) of the MB-873 board.



4. Attach a new DC fan in reverse order of steps 1 to 3.

Note

Attach the DC fan and the fan cover in the direction shown below.



(Replacing the DC fan of the power supply unit)

The DC fan of the power supply unit is not supplied as repair part.

If any trouble occurs on the DC fan, replace the power supply unit.

2. Replacing the DC fan of the BKE-701 (Replacing the DC fan of the IO-193 board)

Replacement part

Part name : DC fan motor

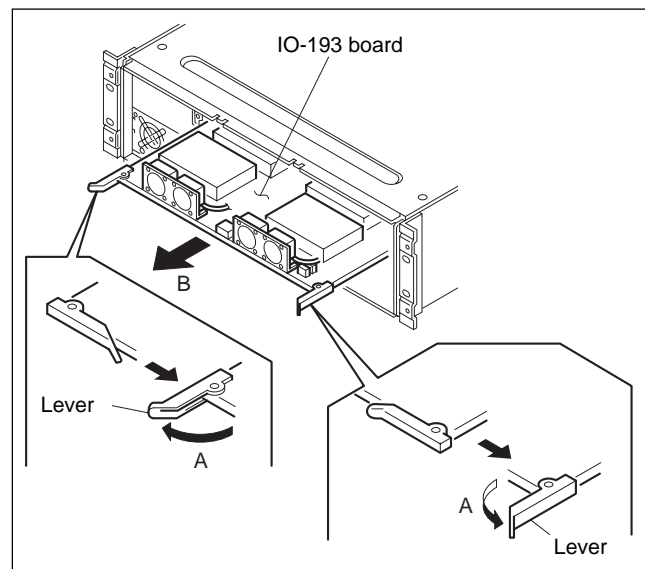
Part No. : 1-763-127-11

Replacement procedure

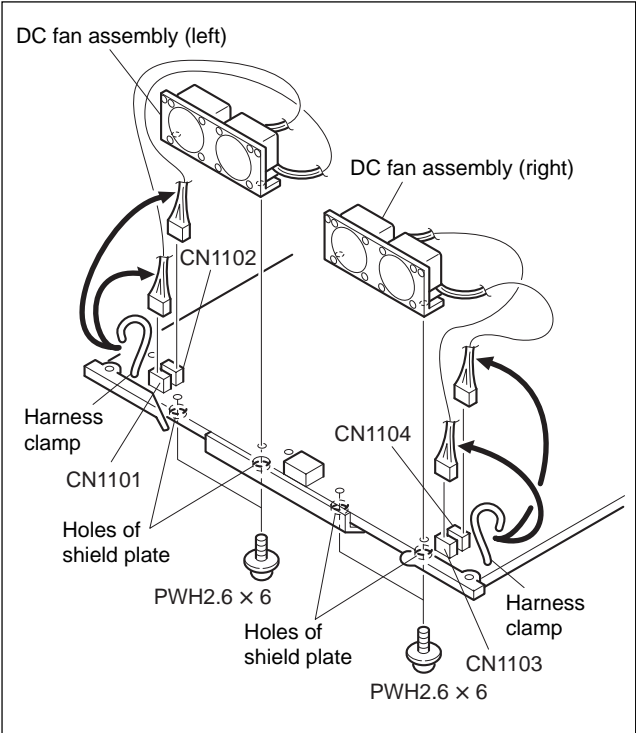
Note

To protect the board, put a protective sheet under the board before replacement.

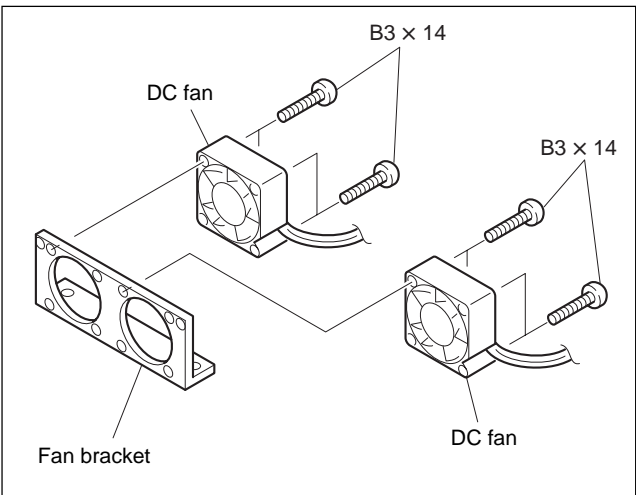
1. Turn off the main power and disconnect the plug from the outlet.
2. Remove the front panel and the board holder. (Refer to "4. Installation" of the Installation Manual supplied with the BKE-701.)
3. Open the lever in the direction of arrow A and pull out the IO-193 board in the direction of arrow B.



- 4. Disconnect the harness from the harness clamp.
- 5. Disconnect the harness from the connectors (CN1101, CN1102 or CN1103, CN1104) of the IO-193 board.
- 6. Remove the two screws from the holes of the shield plate on the rear of the board and remove the DC fan assembly.



- 7. Remove the four screws and remove the DC fan from the fan bracket.



- 8. Attach a new DC fan in reverse order of steps 4 to 7.

Note

When attaching the DC fan assembly to the board, be careful not to catch the harness.

1-4-3. Replacing the Chip Fuse

The following boards use a chip fuse.

CKG-27 board

Ref. No.	Address	Part No.
F101	(H-5)	1-533-477-21

IF-766 board

Ref. No.	Address	Part No.
F301	(A-1)	1-533-829-21
F302	(D-1)	1-533-271-21

IO-193 board (BKE-701)

Ref. No.	Address	Part No.
F201	(J-1)	1-533-477-21

MIX-42 board (BKE-701)

Ref. No.	Address	Part No.
F001	(B-1)	1-533-477-21

1-4-4. Notes while Replacing the Memory on the CPU-317A Board

When replacing the following ICs, be sure to follow this procedure. Otherwise, operations may not work correctly.

1. When replacing IC41 (backup SRAM) :
Set S2-8 on the CPU-317A board to CLOSE, and turn the main power on then off again. Then set S2-8 to OPEN and return the setup data of the backup memory to the factory setting.
2. When replacing IC26 and IC27 (flash memory) :
Perform Section 1-4-5, "Writing the Flash Memory".
3. When replacing IC5 (EEPROM for Ethernet address) :
Perform Section 1-4-6, "Writing the MAC Address".

1-4-5. Writing the Flash Memory

The main program of the BVE-700 is stored in IC26 and IC27 (MX29F1610TC-12C3) on the CPU-317A board. When replacing IC26 and IC27, download the main program and rewrite the flash memory.

The main program can be rewritten after being downloaded via RS-232C or Ethernet from a personal computer.

Required equipment

Personal computer: IBM-PC compatible machine, Windows 95, 98 and NT (Japanese version or English version, 4.0 or higher in case of NT)

1. Download using RS-232C (RS-232C connection)

Connect a commercially-available RS-232C cable between the EDL connector of the rear panel of the BVE-700 and the personal computer for download.

Setting the communication conditions

Set the communication port of the terminal software of the personal computer (HyperTerminal, etc. in case of Windows) as follows.

Baud rate	38400 bps
Data bit length	8 bits
Stop bit length	1 bit
Parity	None
Flow control	None

Download procedure

1. Turn on the mode select switch S1-1 on the CPU-317A board of the BVE-700 and turn on the main power.
2. Start up the terminal software (HyperTerminal, etc. in case of Windows) of the personal computer.
3. Confirm that "00" appears on the 7-segment LED (D100, D101) of the CPU-317A board. Select "send text files" from the transfer menu, then specify the main program file to be downloaded and transfer the file. (Main program file to be downloaded: bve700.hex file of Motorola-S type)
4. Confirm that "FF" appears on the 7-segment LED (D100, D101) of the CPU-317A board, and that downloading and writing in the flash memory have completed.
5. Turn off the mode select switch S1-1 on the CPU-317A board and turn off and on the main power to confirm that the BVE-700 starts up normally. The following contents appear on the 7-segment LED (D100, D101).



Display	Contents
00	Download standby
01 to 0F	Download in progress
10	Flash memory erasing in progress
20	Flash memory writing in progress
FF	Completed
E0 to EF	File format error

Notes

- It normally takes about ten minutes to download and write.
(The download time depends on the size of the file.)
- When writing the data again, turn the main power off and back on, or press the RESET button of the CPU-317A board and perform operations from the beginning.

2. Download via Ethernet

There are two download methods: using the Netscape Web browser, or using the ftp command (installed in Windows 95, 98 and NT4.0).

Ethernet connection

Use an Ethernet (10Base-T/100Base-TX) cable to connect between the Ethernet connector of the rear panel of the BVE-700 and the personal computer for download).

Network settings

Set the IP address and sub-net mask of the personal computer as follows.

IP address : 10.10.10.1

Sub-net mask : 255.0.0.0

Download using Netscape Web browser

1. Turn on the mode select switch S1-1 on the CPU-317A board of the BVE-700 and turn on the main power.
2. Confirm that "00" appears on the 7-segment LED (D100, D101) of the CPU-317A board and start up Netscape.
3. Enter ftp://10.10.10.10/ in "URL" and press the return key.
4. Start up Windows NT Explorer from the Windows start menu and display the folder that contains the main program file (bve700.obj) and drag bve700.obj to the window of Netscape.
5. When the dialog box asks whether you want to upload the dragged file into the FTP server, click on "OK".
6. Confirm that "FF" appears on the 7-segment LED (D100, D101) of the CPU-317A board, and that downloading and writing in the flash memory have completed.
7. Turn off the mode select switch S1-1 of the CPU-317A board and turn off and on the main power to confirm that the BVE-700 starts up normally.
The following contents appear on the 7-segment LED (D100, D101).

Display	Contents
00	Download standby
01	Download in progress
10	Flash memory erasing in progress
20	Flash memory writing in progress
FF	Completed
E0 to EF	File format error

Notes

- It normally takes about 10 seconds to download and write.
- When writing the data again, turn the main power off and back on, or press the RESET button of the CPU-317A board and perform operations from the beginning.

Download using the ftp command (installed in Windows95, 98 and NT4.0)

1. Turn on the mode select switch S1-1 on the CPU-317A board of the BVE-700 and turn on the main power.
2. Confirm that "00" appears on the 7-segment LED (D100, D101) of the CPU-317A board.
3. Start up the MS DOS prompt from the Windows start menu and transfer the file using the ftp command as follows.
C: ¥cd ¥abcd
(“¥abcd” is the directory containing bve700.obj.)
C: ¥>ftp 10.10.10.10
User: (Press the return key only.)
Password: (Press the return key only.)
ftp>bi (binary mode specification)
ftp> put bve700.obj
ftp> quit
4. Confirm that "FF" appears on the 7-segment LED (D100, D101) of the CPU-317A board, and that downloading and writing in the flash memory have completed.
5. Turn off the mode select switch S1-1 on the CPU-317A board and turn off and on the main power to confirm that the BVE-700 starts up normally.
The following contents are displayed on the 7-segment LED (D100, D101).

Display	Contents
00	Download standby
01	Download in progress
10	Flash memory erasing in progress
20	Flash memory writing in progress
FF	Completed
E0 to EF	File format error

Notes

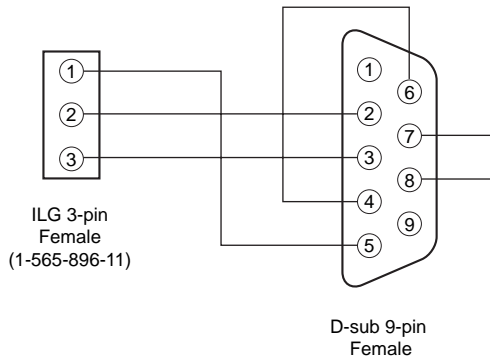
- It normally takes about 10 seconds to download and write.
- When writing the data again, turn the main power off and back on, or press the RESET button of the CPU-317A board and perform operations from the beginning.

1-4-6. Writing the MAC Address

The MAC address means the serial number that is indicated on the seal (G-4) on the CPU-317A board. This is one of important information that is required to connect the system to LAN.

1. Fabricating tool

Prepare the connectors ILG 3-pin (1-565-896-11) female and D-sub 9-pin female. Connect these connectors as shown.



2. Connection

1. Connect an end of the tool harness that is fabricated in section 1, to the ILG 3-pin connector CN9 (J-5) on the CPU-317A board. Connect the D-sub 9-pin connector to the serial port of a personal computer.
2. Turn on the main power of the unit and personal computer.

3. Setting the personal computer

1. Start up the terminal software. (Such as HyperTerminal of Windows)
2. Select the COM port. (It may differs depending upon types of personal computer.)
3. Set the Baud Rate to 9600 bps.
4. Set the Data (data length) to 8 bits.
5. Set the Parity (parity check) to none.
6. Set Stop (Bit) (stop bit) to 1 bit.
7. Set the Flow Control (overflow control) to none.
8. Click CONNECT: Start connection.

4. Setting the MAC address

1. Start up the terminal software of the personal computer using the keyboard.
2. Input the following command from personal computer terminal.
`“dcSetEnetAdrs(“character string of MAC address”)”`
 (“MAC address” shall be a character string consisting of six bytes in hexadecimal notation. Be sure to add 0 in front of the byte that can be indicated with a single digit.
 Example : → `dcSetEnetAdrs(“010203040506”)`

5. Confirming the MAC address

- Input the following command from the computer terminal using the keyboard.
`“dcViewRom(0x30000000,10,6)”`
- Confirm that the following character string appears on display.
 (The following character string appears when the MAC address of 01 02 03 04 05 06 is set)
 0102 0304 0506

1-4-7. Removing the Coaxial Cables

Required tool

Part name : Tool for pulling coaxial connector

Part No. : —

Note

Use the tool for pulling the coaxial connector to remove the coaxial cable connected to the MB-873 board of the BVE-700 and the IO-193 board of the BKE-701.

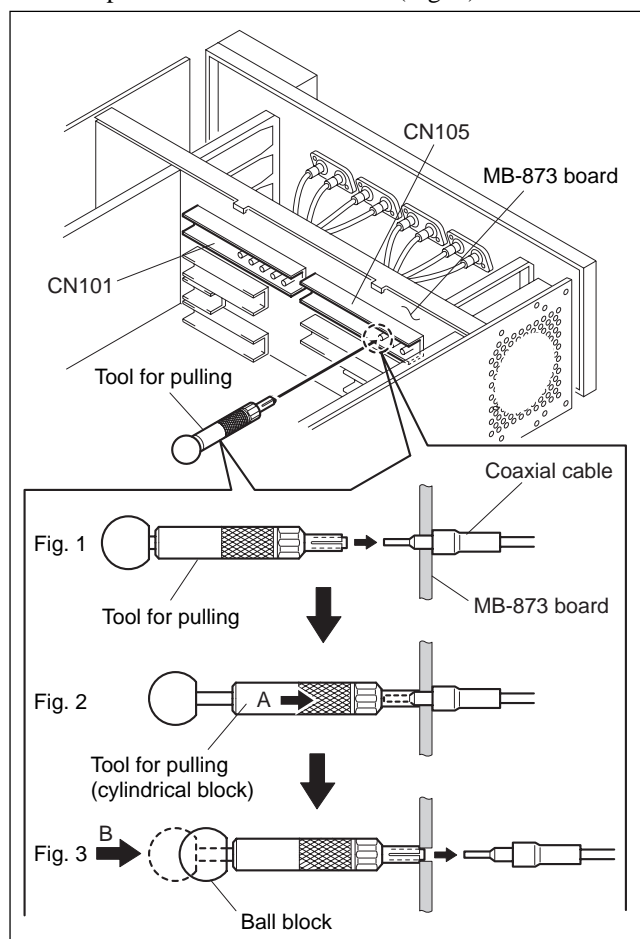
Removing the coaxial cable of the MB-873 board

1. Turn off the main power and disconnect the plug from the outlet.
2. Remove the top panel. (Refer to Section 1-3-1.)

Note

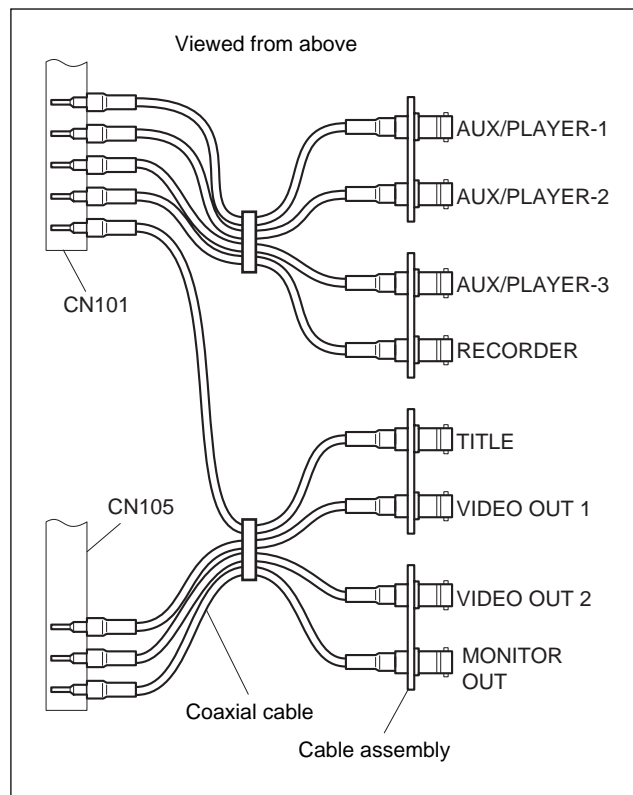
Eight coaxial cables are connected to the MB-873 board.

3. Push the tip of the tool against the tip of the coaxial cable. (Fig. 1)
4. Slide the cylindrical block of the tool in the direction of arrow A so that it covers the tip of the coaxial cable. (Fig. 2)
5. Push the ball block of the tool in the direction of arrow B to push the coaxial cable out. (Fig. 3)



Notes

- Significant force is required to push the coaxial cable out, take great care.
- Connect the coaxial cables to the cable assembly as shown below.



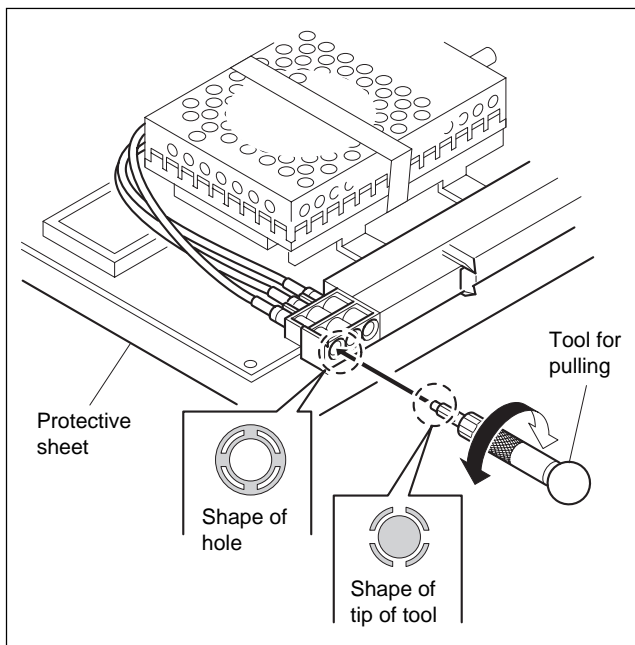
Removing the coaxial cables of the IO-193 board

1. Turn off the main power and disconnect the plug from the outlet.
2. Remove the front panel and board bracket. (Refer to “4. Installation” of the Installation Manual supplied with the BKE-701.)
3. Remove the IO-193 board. (Refer to Section 1-4-2.)

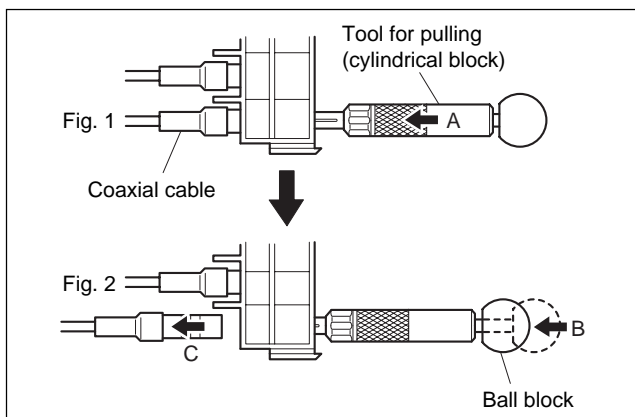
Note

To protect the board, put a protective sheet under the board before removing it.

4. Adjust the tool so that the tip becomes the same size as the hole of the coaxial cable.



5. Slide the cylindrical block of the tool in the direction of arrow A. (Fig. 1)
6. Push the ball block of the tool in the direction of arrow B to push the coaxial cable out in the direction of arrow C. (Fig. 2)



1-4-8. Replacing the HD SDI Modules

Note

The HD SDI module is installed in the BKE-701 (IO-193 board).

Replacement part

Part name : HD SDI TX module (HK-201)

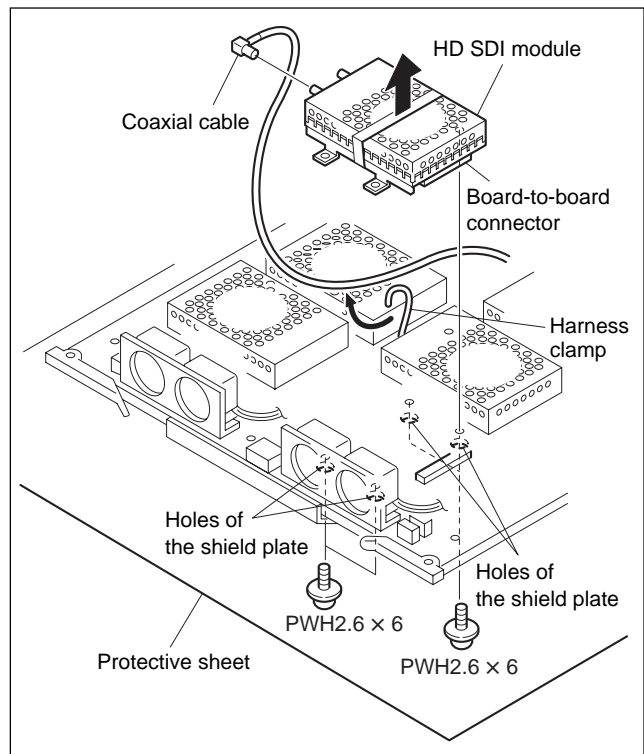
HD SDI RX module (HK-202)

Note

To protect the board, put a protective sheet under the board before removing it.

Replacement procedure

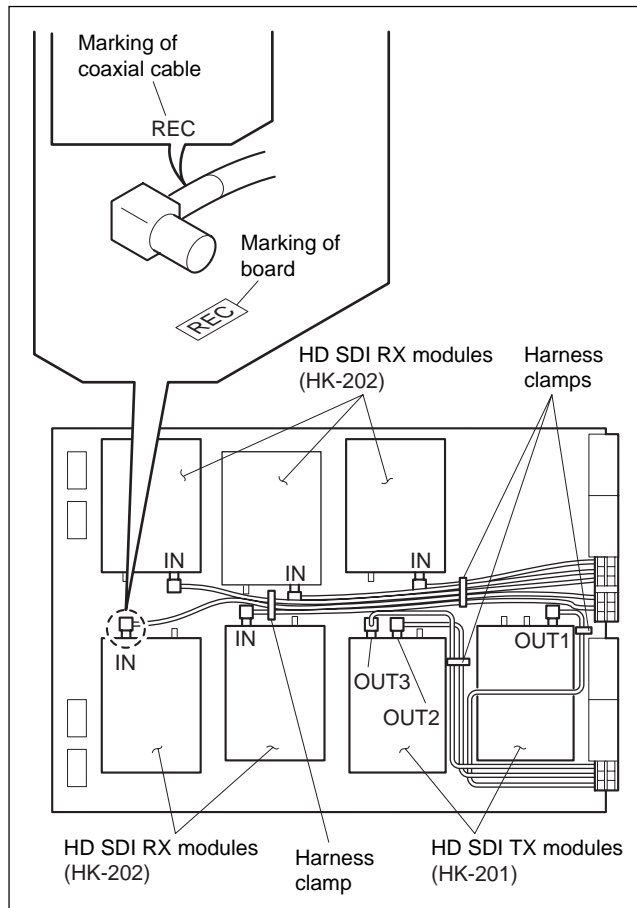
1. Turn off the main power and disconnect the plug from the outlet.
 2. Remove the IO-193 board. (Refer to Section 1-4-2.)
- #### Note
- All seven HD SDI modules can be removed in the same way.
3. Disconnect the coaxial cable from the harness clamp.
 4. Disconnect the coaxial cable from the HD SDI module.
 5. Remove the four screws from the holes of the shield plate on the rear of the board.
 6. Disconnect the board-to-board connector connected to the IO-193 board and remove the HD SDI module.



7. Attach the new HD SDI module in reverse order of steps 3 to 6.

Notes

- Attach each HD SDI module in the position shown below.
- Use the coaxial cable having the same signal name as marked on the board of the HD SDI module to be connected.



1-5. Notes when Inspecting the CKG-27 Board

The MEM-94A board can be removed during inspection of the CKG-27 board. However, removal of the MEM-94A board may erase the EDL data of the user settings.

1-6. Using the Extension Board

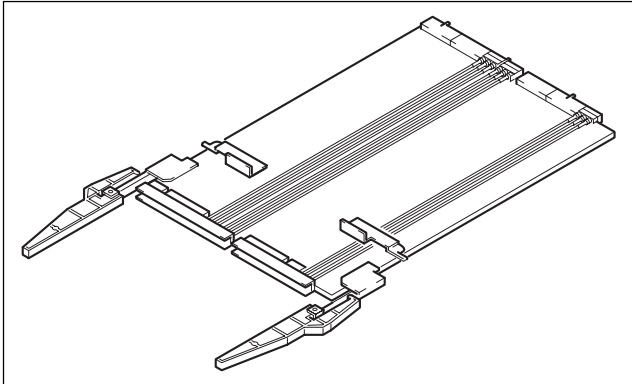
Required board

Part name : Extension board EX-726

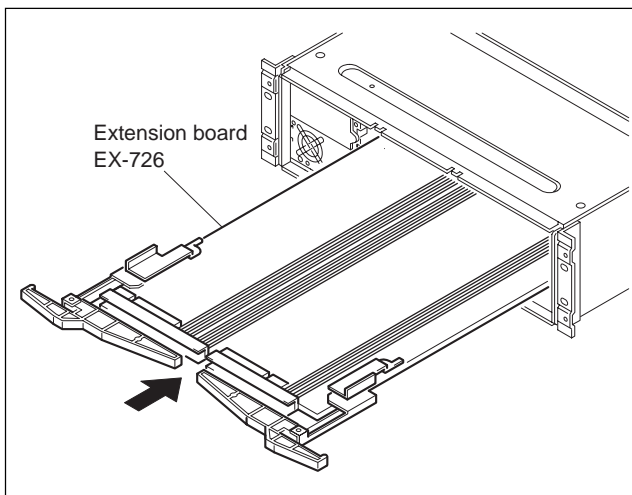
Part No. : A-8326-325-A

Note

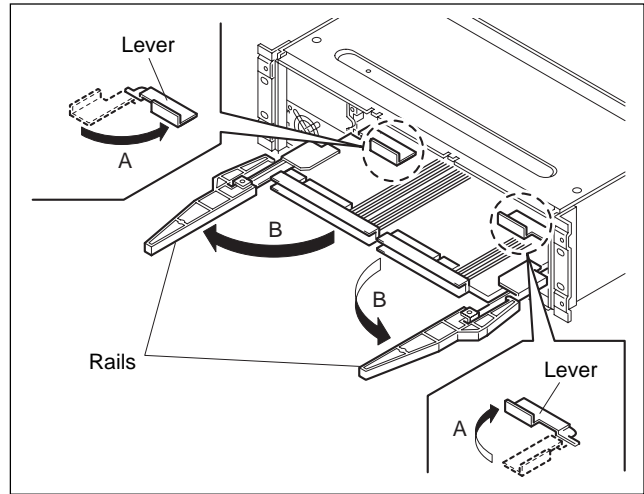
Use the extension board EX-726 to inspect and adjust the CKG-27 assembly of the BVE-700, and the IO-193 board, the MIX-42 board of the BKE-701.



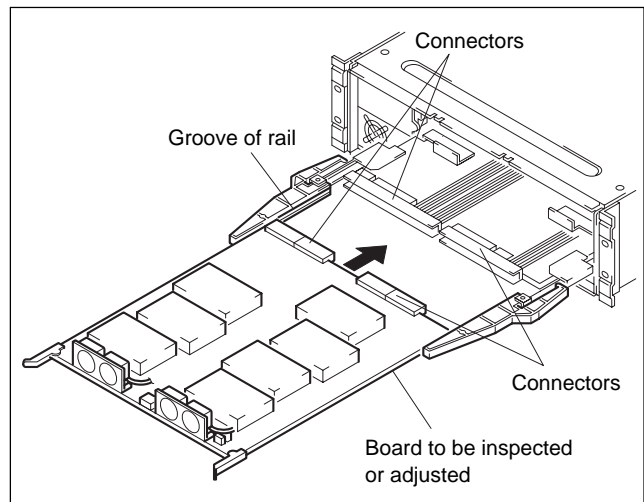
1. Turn off the main power and disconnect the plug from the outlet.
2. Remove the front panel and the board bracket. (Refer to “4. Installation” of the Installation Manual supplied with the BKE-701.)
3. Remove the board to be inspected or adjusted.
4. Insert the extension board into the slot of the removed board in the direction shown below.



5. Close the levers in the direction of arrow A and lock them.
6. Open the rails in the direction of arrow B.



7. Align the board removed at step 3 with the grooves of the rails and fully engage the connectors.



1-7. Troubleshooting

1-7-1. Hardware Troubleshooting

Outline

The BVE-700 contains hardware test modes that are useful when troubleshooting the system. The hardware test modes contain the following three tests.

- CPU-317 Basic Test

This is a test program that runs on flash memory which is installed in the DBG/TEST ROM (IC38) socket.

The CPU-317 Basic Test program tests the main memory DRAM and timer. The test result is judged from the 7-segment LEDs (D100, D101) and the LEDs (D1 to D4).

This test does not use the terminal unlike other hardware tests.

- CPU-317 Middle Test

The CPU-317 Middle Test is stored in the boot ROM (IC37) and is used while the terminal is connected to the RS-232C port of the CPU-317A board.

This program tests the functions of the CPU-317A board as a standalone circuit board.

- CKG, CPU, MEM, IO, MIX Application Test

This test is stored in the boot ROM (IC37) and is used while the terminal is connected to the RS-232C port on the CPU-317A board.

This program tests the system with the CPU-317A board, CKG-27 board, MIX-42 board, IO-193 board and MEM-94A board already installed.

1. Running the CPU-317 Basic Test

This test program is stored in BTEST317A that is installed in IC38 on the CPU-317A board. It tests the main memory DRAM, battery backup RAM and timer on the CPU-317A board without using the terminal.

Note

Running the CPU-317 Basic Test affects the contents of the setup data and other data that are stored in the battery backup RAM on the CPU-317A board. Therefore, the setup data must be set again.

How to start the test

To start the CPU-317 Basic Test, insert a shorting pin to “COP3” (TEST) on the CPU-317A board, and then turn on the main power of the system or press the RESET button.

How to check the test result

When the following message followed by “FF” at the end appears on the 7-segment LEDs (D100, D101) on the CPU-317A board, it means that the test ended successfully without any errors detected.

00 → 07 → 06 → 05 → 04 → 03 → 02 → 01 → 00 →
07 → 06 → 05 → 04 → 03 → 02 → 01 → FF

The status LEDs (D1, D2, D3, D4) also turn on in accordance with the test contents, and all LEDs turn off upon completion of the test.

Groups of the test are performed in the following order. If an error is detected, the test stops immediately. Hence, if “FF” does not appear about ten seconds after starting the test, it means that an error was detected.

Groups of the test are performed in order from : DRAM → Backup RAM → Timer 0 → Timer 1.

7-seg LED	D1	D2	D3	D4	Test contents
00	—	—	○	—	DRAM test
00	—	—	—	○	Backup RAM test
00 to 07	○	—	—	—	Timer 0 test
00 to 07	—	○	—	—	Timer 1 test
FF	—	—	—	—	Test ends normally.

The bar mark (“—”) of LEDs D1 to D4 indicates that the LED is off and the white round mark (“○”) indicates that the LED is on.

2. Running the CPU-317 Middle Test

This program tests the functions of the CPU-317A board as a standalone circuit board.

Note

Running the CPU-317 Middle Test affects the contents of the setup data and other data that are stored in the battery backup RAM and the directly mounted flash memory on the CPU-317A board. Therefore, the main data of applications must be downloaded, setup data must be set and the date must be entered again.

Preparation

Connect the BVE-700 with a personal computer using a commercially-available RS-232C cable (D-sub 9-pin). Set the terminal software (HyperTerminal, etc. in the case of Windows) of the personal computer as follows.

Baud rate	9600 bps
Data bit length	8 bits
Stop bit length	1 bit
Parity	None
Flow control	None

How to start the test program

1. Connect an RS-232C terminal to the CPU-317A board.
2. Set the mode select switch S1-2 on the CPU-317A board to CLOSE. Turn on the main power. (Alternatively, press the RESET switch on the CPU board while the main power is turned on.)
3. Preparation for the test is complete when the following menu appears.

```
MAIN
1. CPU-317 Middle test
2. CKG. CPU, MEM. IO, MIX Application test
3. QUIT

Select test No.
```

How to check preparation of the test

1. Press the **1** + **Enter** keys. Select “1. CPU-317 Middle test”.
2. Check that the following display appears.

```
CPU-317 Middle test main menu
1. Auto test
2. Auto verify test
3. Manual test
4. FULL manual mode
5: MISC
6: QUIT

Select test No.
```

2-1. Auto test

When “Auto test” is selected on the CPU-317 Middle test main menu, the CPU-317 Middle Test starts automatically. When the test ends successfully without any error, the following display appears.

```
CPU-317 Auto test
1. Flash memory write/verify test ----- !! OK !!
2. Battery backup RAM write/verify test -- !! OK !!
3. Real Time Clock write/verify test ----- !! OK !!

Auto test finished.          Test status = !! OK !!

PUSH RETURN KEY
```

Example of display when the test result is NG

```
CPU-317 Auto test
1. Flash memory write/verify test ----- ?? NG ??
ERROR ADR=b0000000. WD=4A3f2b4e. RD=00000000
ERROR ADR=b0000004. WD=4A3f2b4f. RD=00000000
ERROR ADR=b0000008. WD=4A3f2b50. RD=00000000
ERROR ADR=b000000c. WD=4A3f2b51. RD=00000000
ERROR ADR=b0000010. WD=4A3f2b4e. RD=00000000
ERROR ADR=b0000014. WD=4A3f2b4f. RD=00000000
ERROR ADR=b0000018. WD=4A3f2b50. RD=00000000
ERROR ADR=b000001c. WD=4A3f2b51. RD=00000000
ERROR OCCURED! Test break.

2. Battery backup RAM write/verify test -- !! OK !!
3. Real Time Clock write/verify test ----- !! OK !!

Auto test finished.          Test status = ?? NG ??

PUSH RETURN KEY
```

- When the test result is NG, the address (ADR) in which an error was detected, the write data (WD) and the read data (RD) at the time of error occurrence are displayed. Then the test quits the test item. Not all of the error statuses are displayed, but as many as eight errors are displayed with the contents and the test is interrupted.
- All test items are performed. The test status NG is displayed if an error is detected in any of the items.

2-2. Auto verify test

When “Auto verify test” is selected on the CPU-317 Middle test main menu, the CPU-317 Middle Test starts automatically. When the test ends successfully without any error, the following display appears.

This program tests whether data contents that have been set and stored in memory are correctly kept memorized, even when the main power is turned off and then back on. Therefore, perform “2-1. Auto test”, then turn the main power off and back on again.

```
CPU-317 Auto verify test
1. Flash memory verify test ----- !! OK !!
2. Battery backup RAM verify test ----- !! OK !!
3. Real Time Clock verify test ----- !! OK !!

Auto verify test finished. Test status = !! OK !!

PUSH RETURN KEY
```

Test items

1. Flash memory verify test
This program tests whether the present addresses are correctly written in the flash memory. Test result “OK” appears if they are correctly written.
2. Battery backup RAM verify test
This program tests whether the present addresses are correctly written in the battery backup RAM. Test result “OK” appears if they are correctly written.
3. Real Time Clock verify test
All of the date information that have already been saved except minute and second data are checked for correctness. If the read information agrees with the date information that was written before, the test result “OK” appears.

2-3. Manual test

When “Manual test” is selected on the CPU-317 Middle test main menu, the following display appears.

```
CPU-317 Manual test
1. INT test
2. DIP SW test
3. LED test
4. QUIT
Select test No.
```

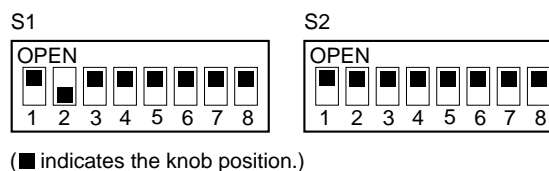
1. INT test (Factory use)

Note

This test program requires a dedicated test fixture, so do not select this test item.

2. DIP switch test

The DIP switches (S1, S2) have already been set in the following setup before entering this test.



When “2” is selected on the Manual test menu, the following display appears.

```
DIP SW read test1
OPEN
+ + + + + + + +
+ + + + + + + +
12345678 12345678
S1 S2

SET DIPSW AND PUSH Return.
```

Cross mark (“+”) indicates the switch lever position. To run the test, set the DIP switch position as shown above, and press the **Enter** key. When data are correctly read, the following display appears.

```
DIP SW read test1
OPEN
+ + + + + + + +
+ + + + + + + +
12345678 12345678
S1 S2

SET DIPSW AND PUSH Return.
DIP SW read test1 ----- !! OK !!
PUSH Return.
```

Pressing the **E n t e r** key advances the test to the pattern-2 test.

```
DIP SW read test2
OPEN
+ + + + + + + +
+ + + + + + + +
12345678 12345678
S1      S2

SET DIPSW AND PUSH Return.
```

Set the DIP switch position as shown above, and press the **E n t e r** key. When data are correctly read, the following display appears and advances the test to the pattern-3 test.

```
DIP SW read test3
OPEN
+ + + + + + + +
+
12345678 12345678
S1      S2

SET DIPSW AND PUSH Return.
```

Set the DIP switch position as shown above, and press the **E n t e r** key.

(The DIP switch positions are returned to the default position setup before shipment from the factory.)

3. LED test

When “LED test” is selected on the CPU-317 Manual test main menu, the following display appears. Pressing the **E n t e r** key starts the LED display test automatically.

```
LED test
Check LED Lighting.
PUSH Return
```

The LED display test performs operations (1) and (2) described below at the same time.

Note

The displays are switched about every 0.5 seconds.

(1) 7-segment LED (D100, D101)

The message changes in the following order.
10 → 21 → 32 → 43 → 54 → 65 → 76 → 87 → 98 →
A9 → bA → Cb → dC → Ed → FE → 0F → 10

(2) Status LED (D1 to D8)

The following eight patterns are repeatedly displayed.

1 :	●	○	○	○	○	○	○	○
	D1	D2	D3	D4	D5	D6	D7	D8
2 :	○	●	○	○	○	○	○	○
	D1	D2	D3	D4	D5	D6	D7	D8
3 :	○	○	●	○	○	○	○	○
	D1	D2	D3	D4	D5	D6	D7	D8
4 :	○	○	○	●	○	○	○	○
	D1	D2	D3	D4	D5	D6	D7	D8
5 :	○	○	○	○	●	○	○	○
	D1	D2	D3	D4	D5	D6	D7	D8
6 :	○	○	○	○	○	●	○	○
	D1	D2	D3	D4	D5	D6	D7	D8
7 :	○	○	○	○	○	○	●	○
	D1	D2	D3	D4	D5	D6	D7	D8
8 :	○	○	○	○	○	○	○	●
	D1	D2	D3	D4	D5	D6	D7	D8



● : LED is on.
○ : LED is off.

2-4. FULL Manual test

When “FULL Manual test” is selected on the CPU-317 Middle test main menu, the following display appears. This test program enables the respective test items of “2-1. Auto test” to be performed independently when a desired test item is selected.

Note

Test items 4 to 7 of the “FULL Manual test” are the factory use and require a dedicated test fixture, so do not select these test items.

```
CPU-317 FULL Manual test
1.Flash memory write/verify test
2.Battery backup RAM write/verify test
3.Real Time Clock write/verify test
4.LAN/PCI BUS test
5.RS-232C COM test
6.I/O BUS test
7.Timer/INT test
8.QUIT

Select test No.
```

3. Running the CKG, CPU, MEM, IO, and MIX Application Test

Note

Running the “1. MEM-94 memory write/verify test” included in “Auto test 1” and “Manual test 1” affects the EDL data stored in the MEM-94A board that is installed on the CKG-27 board.

Preparation

Connect the BVE-700 to a personal computer using a commercially-available RS-232C cable (D-sub 9-pin). Set the terminal software (HyperTerminal, etc. in the case of Windows) of the personal computer as follows.

Baud rate	9600 bps
Data bit length	8 bits
Stop bit length	1 bit
Parity	None
Flow control	None

Loop-back test connector

The following four loop-back connectors are required for the loop-back test:

- VTR, SWer, MIXer Port RS-422 (D-SUB 9-pin Male) × 6*
- CONPANE RS-422 (D-SUB 25-pin Male) × 1
- EDL Port RS-232C (D-SUB 9-pin Female) × 1
- GPI IN/OUT (D-SUB 15-pin Male) × 1

* : It is possible to use only one loop-back connector and to perform one loop-back test after another.

Pin connection information for the loop-back test is as follows.

- VTR, SWer, MIXer Port RS-422 (D-SUB 9-pin Male)

RX+ (7-pin)	↔	(3-pin) TX+
RX- (2-pin)	↔	(8-pin) TX-
- CONPANE RS-422 (D-SUB 25-pin Male)

RX+ (3-pin)	↔	(18-pin) TX+
RX- (16-pin)	↔	(5-pin) TX-
- EDL Port RS-232C (D-SUB 9-pin Female)

RXD (2-pin)	↔	(3-pin) TXD
RTS (7-pin)	↔	(8-pin) CTS
- GPI IN/OUT (D-SUB 15-pin Male)

GPI_OUT_R1 (2-pin)	↔	(6-pin) GPI_IN_T1
GPI_OUT_R2 (3-pin)	↔	(14-pin) GPI_IN_T2
GPI_OUT_T1 (4-pin)	↔	(7-pin) GPI_IN_T3
GPI_OUT_T2 (5-pin)	↔	(15-pin) GPI_IN_T4
GPI_OUT_R1R (9-pin)	↔	(1-pin) GND
GPI_OUT_R2R (10-pin)	↔	(1-pin) GND

How to start the test program

1. Connect an RS-232C terminal to the CPU-317A board.
2. Set the mode select switch S1-2 on the CPU-317A board to CLOSE. While pressing the ABORT switch, turn on the main power. (Alternatively press the RESET switch on the CPU board while the main power is on.)
3. Preparation for the test is complete when the following menu appears.

```

MAIN
1. CPU-317 Middle test
2. CKG, CPU, MEM, IO, MIX Application test
3. QUIT

Select test No.
```

Outline of test menu

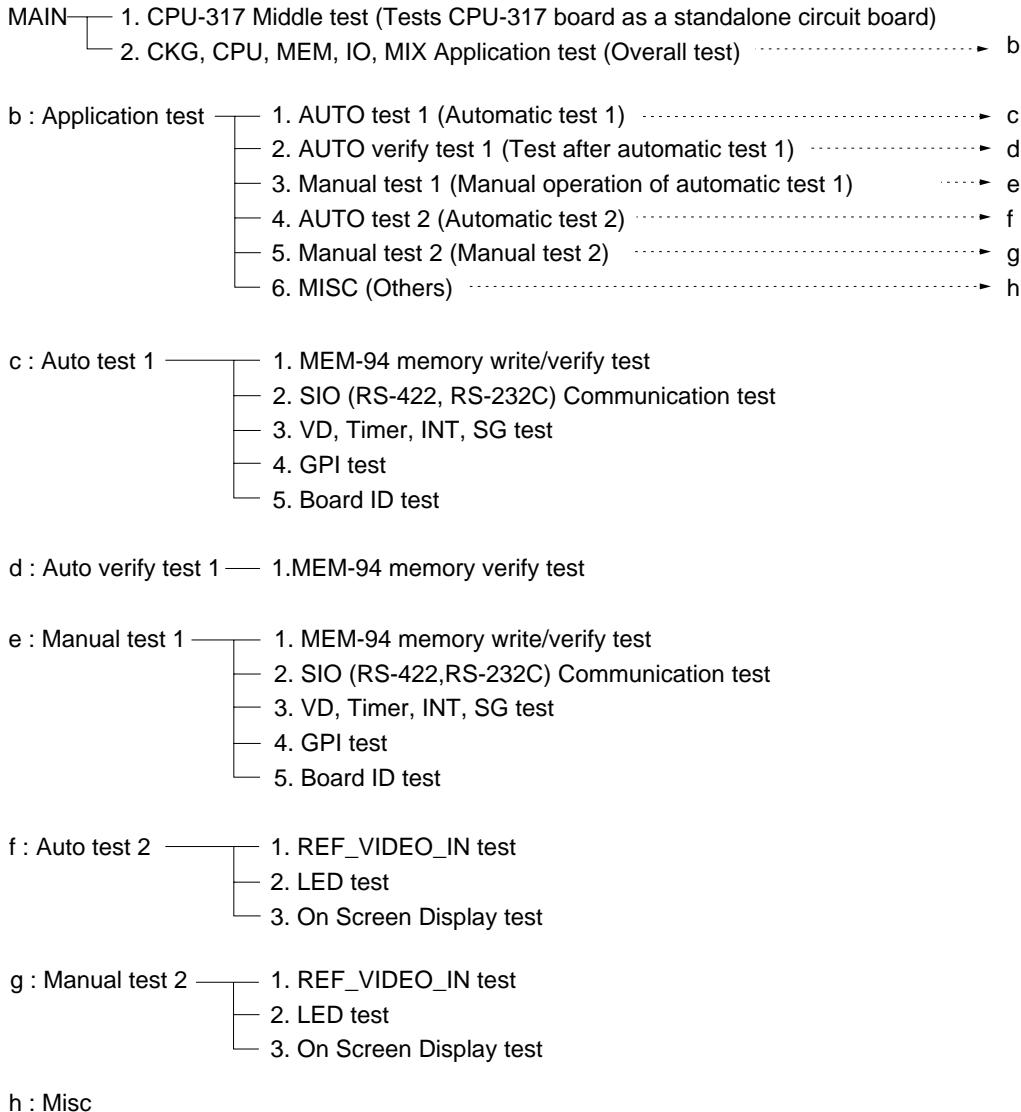
Tree structure of test menu is shown as follows.

When “Auto test 1” is selected while a loop-back connector is installed, “Auto test 1” runs all the test items automatically in order.

“Auto test 2” is a semi-automatic test that requires visual check at each test item and other operations while the test is in progress.

Manual test containing “Manual test 1” and “Manual test 2” enables to select and run any desired test item independently.

The “Auto verify test 1” program tests whether data contents that have been set and stored in memory are correctly kept memorized, even when the main power is turned off and then back on. Therefore, perform “2-1. Auto test”, then turn the main power off and back on again before starting the “Auto verify test 1”.



How to check preparation of the test

1. Press the **[2]** + **[Enter]** keys. Select “2. CKG, CPU, MEM, IO, MIX Application test”.

```
MAIN
1.CPU-317 Middle test
2.CKG, CPU, MEM, IO, MIX Application test
3.QUIT

Select test No.2
```

2. Check that the following display appears.

```
CKG, CPU, MEM, IO, MIX Application test
1.Auto test 1
2.Auto verify test 1
3.Manual test 1
4.Auto test 2
5.Manual test 2
6.Misc
99.QUIT

Select test No.1
```

3-1. Auto test 1

When “Auto test 1” (automatic test) is selected from the “CKG, CPU, MEM, IO, MIX Application Test” while all loop-back connectors are installed, “Auto test 1” runs all the test items automatically in order. When the test ends successfully without any error, the message “AUTO test 1 finished. Test status = !!OK!!” appears.

```
AUTO test 1
1.MEM-94 memory write/verify test ----- !! OK !!
2.SIO (RS-422, RS-232C) Communication test-- !! OK !!
3.VD, Timer, INT, SG test----- !! OK !!
4.GPI test ----- !! OK !!
5.Board ID test ----- !! OK !!

AUTO test finished.          Test status = !! OK !!

PUSH RETURN KEY
```

3-2. Auto verify test 1

When “MEM-94 memory write/verify test” has ended with “OK” in “Auto test 1”, turn off the main power and then back on. Enter the test menu again and perform the “2. Auto verify test 1” that tests whether data contents that have been set and stored in memory are correctly kept memorized, even when the main power is turned off and on.

```
AUTO verify test 1
1.MEM-94 memory verify test ----- !! OK !!

AUTO verify test finished.  Test status = !! OK !!

PUSH RETURN KEY
```

3-3. Auto test 2

1. When “4. Auto test 2” is selected from the “CKG, CPU, MEM, IO, MIX Application test”, “1. REF VIDEO IN test” that is the first test item of “5. Manual test 2” starts. Prompt message as shown below appears on display. Run the test in accordance with the prompt message on display. (Refer to “3-4. Manual test 2” description for details of each test item of “4. Auto test 2”.)

```
REF_VIDEO_IN test1
DISCONNECT REF_VIDEO_IN AND PUSH RETURN KEY
```

2. When “1. REF VIDEO IN test” ends, “2. LED test” appears on display. Run the test in accordance with the prompt message on display.

```
LED test1
Check LED off.
PUSH RETURN KEY
```

3. When “3. On Screen Display test” ends in the same way, all the test contents of “4. Auto test 2” are completed and returns to the “CKG, CPU, MEM, IO, MIX Application test” selection display.

3-4. Manual test 2

1. When “5. Manual test 2” is selected from the “CKG, CPU, MEM, IO, MIX Application test”, the following display appears.

```
CKG, CPU, MEM, IO, MIX Application test
1.REF VIDEO IN test
2.LED test
3.On Screen Display test
99.QUIT

Select test No.
```

2. When “1. REF VIDEO IN test” is selected, the following message appears. Remove all signals from the REF VIDEO IN connector and press the **[Enter]** key.

```
REF_VIDEO_IN test1
DISCONNECT REF_VIDEO_IN AND PUSH RETURN KEY
```

3. When no error is detected, the following message appears.

```
REF_VIDEO_IN test1 ----- !! OK !!
PUSH RETURN KEY
```

4. Press the **[Enter]** key. The following message appears. Connect a video signal to the REF VIDEO IN connector. Press the **[Enter]** key.

```
REF_VIDEO_IN test2
CONNECT REF_VIDEO_IN (1125/59.94) AND PUSH RETURN KEY
```

5. When no error is detected, the following message appears.

```
REF_VIDEO_IN (1125/59.94) test2 ----- !! OK !!
PUSH RETURN KEY
```

6. Press the **[Enter]** key. The following message appears. Change a video signal that is connected to the REF VIDEO IN connector. Press the **[Enter]** key.

```
REF_VIDEO_IN test3
CONNECT REF_VIDEO_IN (1125/60.00) AND PUSH RETURN KEY
```

7. When no error is detected, the following message appears.

```
REF_VIDEO_IN (1125/60.00) test3 ----- !! OK !!
PUSH RETURN KEY
```

8. Press the **[Enter]** key. The following message appears. Change a video signal that is connected to the REF VIDEO IN connector. Press the **[Enter]** key.

```
REF_VIDEO_IN test4
CONNECT REF_VIDEO_IN (525/59.94) AND PUSH RETURN KEY
```

9. When no error is detected, the following message appears.

```
REF_VIDEO_IN (525/59.94) test4 ----- !! OK !!
PUSH RETURN KEY
```

10. Press the **[Enter]** key. The following message appears. Change a video signal that is connected to the REF VIDEO IN connector. Press the **[Enter]** key.

```
REF_VIDEO_IN test5
CONNECT REF_VIDEO_IN (625/50.00) AND PUSH RETURN KEY
```

11. When no error is detected, the following message appears.

```
REF_VIDEO_IN (625/50.00) test5 ----- !! OK !!
PUSH RETURN KEY
```

Note

It takes some time before circuit becomes stable after input signal is changed. So wait for about 1 second then press the **[Enter]** key.

Note

When an error is detected, the following message appears.

```
REF_VIDEO_IN test1 ----- !! NG !!
ERROR: PLL NG
ERROR: REF NG
PUSH RETURN KEY
```

12. Return to the Manual test selection menu. Select “2. LED test”. The following message appears. Confirm that the LED that is located next to the POWER switch of this machine (processor unit) is turned off.

```
LED test1
Check LED off.
PUSH RETURN KEY
```

13. Press the **[Enter]** key. The following message appears. Confirm that the red LED turns on.

```
LED test2
Check RED_LED Lighting.
PUSH RETURN KEY
```

14. Press the **[Enter]** key. The following message appears. Confirm that the green LED turns on.

```
LED test3
Check GREEN_LED Lighting.
PUSH RETURN KEY
```

15. Return to the Manual test selection menu. Select “3. On Screen Display test”. The following message appears.

```
OSD test1
Check OSD (size=0, type=3, h-pos=0, v-pos=0)
PUSH RETURN KEY
```


16. Press the **Enter** key. A super-imposed (On Screen Display) display with full characters of 16 characters × 12 lines in the top-left of a small-size display with black background, appears at the VIDEO MOINOTOR OUT connector.

```
! "#$%&' () *+, -./
0123456789:;<=>?
@ABCDEFGHIJKLMNO
PQRSTUVWXYZ [\] ^_
`abcdefg hijklmno
pqrstuvwxyz {} ~
! "#$%&' () *+, -./
0123456789:;<=>?
@ABCDEFGHIJKLMNO
PQRSTUVWXYZ [\] ^_
`abcdefg hijklmno
pqrstuvwxyz {} ~
```

17. Every pressing of the **Enter** key shows the “Check OSD...” lines in the following order on the terminal screen.

```
Check OSD (size=0, type=3, h-pos=14, v-pos=0)
Check OSD (size=0, type=3, h-pos=0, v-pos=12)
Check OSD (size=0, type=3, h-pos=14, v-pos=12)
Check OSD (size=1, type=3, h-pos=8, v-pos=0)
Check OSD (size=1, type=2, h-pos=8, v-pos=0)
Check OSD (size=1, type=1, h-pos=8, v-pos=0)
Check OSD (size=1, type=0, h-pos=8, v-pos=0)
Check OSD (size=2, type=3, h-pos=8, v-pos=0)
```

Display on the VIDEO MONITOR OUT screen changes in the following order.

Size small, black background, top right
Size small, black background, bottom left
Size small, black background, bottom right
Size middle, black background, top center
Size middle, half-transparent background, top center
Size middle, black edges with no background, top center
Size middle, no edge with no background, top center
Size large, black background, top center (six lines are displayed)

Note

Six lines are displayed in the final “Size large” screen.

18. Press the **Enter** key to quit the test and to return to the selection menu.

3-5. Manual test 1

The “3. Manual test 1” program enables the respective test items of “1. Auto test” to be performed independently when a desired test item is selected.

Note

When number of loop-back connectors is insufficient, select “3. Manual test 1” instead of “1. Auto test”. The loop-back tests separated into multiple number of test that can be performed by repeating the loop-back test separately.

- When “3. Manual test 1” is selected from the “CKG, CPU, MEM, IO, MIX Application test”, the following display appears.

```
CKG, CPU, MEM, IO, MIX Application test [Manual test 1]
1. MEM-94 memory write/verify test
2. MEM-94 memory verify test
3. SIO (RS-422, RS-232C) Communication test
4. VD, Timer, INT, SG test
5. GPI test
6. Board ID test
99. QUIT

Select test No.
```

- When “1. MEM-94 memory write/verify test” is selected and an error is detected, the following display appears.

```
1. MEM-94 memory write/verify test ----- ?? NG ??
ERROR ADR=b0000000, WD=00000000, RD=ffff0000
ERROR ADR=b0000004, WD=00000001, RD=ffff0e04
ERROR ADR=b0000008, WD=00000002, RD=ffff0008
ERROR ADR=b0000010, WD=00000003, RD=ffff0010
ERROR ADR=b0000020, WD=00000004, RD=ffff0020
ERROR ADR=b0000040, WD=00000005, RD=ffff0e40
ERROR ADR=b0000080, WD=00000006, RD=ffff0080
ERROR ADR=b0000100, WD=00000007, RD=ffff0100
ERROR OCCURRED! Test break.

PUSH RETURN KEY
```

- The display indicates the data 0xffff0xxx is obtained when data 0x0000000x is once written and read out to and from address 0xb000xxx of MEM-94.
- When multiple errors are detected, a maximum of 8 lines can be displayed.
- This display format is common to the subsequent “2. MEM-94 memory verify test”.

3. When “3. SIO (RS-422, RS-232C) Communication test” is selected and an error is detected in the repetition of the serial ports _SWer, MIXer, VTR, PANEL, and EDL, the following display appears.

```
3. SIO (RS-422, RS-232C) Communication test-- ?? NG ??
ERROR:      SWER SIO1 CH0 read error
ERROR:      MIXER SIO1 CH1 read error
ERROR: PLAYER-1 UART1 CH1 timeout error
ERROR: PLAYER-2 UART1 CH2 timeout error
ERROR: PLAYER-3 UART2 CH1 timeout error
ERROR: RECORDER UART2 CH2 timeout error
ERROR:      PANEL UART3 CH1 timeout error
ERROR:      EDL  UART3 CH2 timeout error

AUTO test finished.          Test status = ?? NG ??

PUSH RETURN KEY (PUSH SPACE KEY THEN REPEAT)
```

Note

When “3. SIO (RS-422, RS-232C) Communication test” ends, it waits for the **[Enter]** key input. “3. SIO (RS-422, RS-232C) Communication test” is designed to repeat the same test again and again whenever space key is pressed instead of the **[Enter]** key. Using this function, test can be repeated by simply pressing the **[Enter]** key by re-connecting the loop-back connector to other socket when number of the loop-back connectors is insufficient.

4. Select “4. VD, Timer, INT, SG test”. If the VD interrupt cannot be detected, the following display appears.

```
4. VD, Timer, INT, SG test ----- ?? NG ??
ERROR:VD interrupt nothing

AUTO test finished.          Test status = ?? NG ??

PUSH RETURN KEY
```

The other errors can be detected as follows:

Display	Contents
ERROR : VD freq over NOW=36 > LIMIT=35	VD frequency is higher than the specified value.
ERROR : VD freq under NOW=30 < LIMIT=32	VD frequency is lower than the specified value.
ERROR : PTC0 WD=551x, RD=0000	PTC0 write/read test resulted in NG
ERROR : PTC0 EXTINT1 error	PTC0 interrupt EXTINT1 is kept ON
ERROR : PTC0 EXTINT1 interrupt nothing	PTC0 interrupt is not outputted
ERROR : PTC0 freq error = 11 (10)	PTC0 frequency is different from the specified value (10)

PTC : Programmable Timer Controller

5. When “5. GPI test” is executed and an error is detected, example in such a case is shown below.

Example)
When GPI port loop-back test is executed, 0xf is read instead of the inverted 0xe when 0x1 is written into the PIO output port (4 bits) on the CKG-27 board and the input-side port is read.
Because bit 0 has problem, the signal path of either GPL_OUT_R1 or GPL_IN_T1 has problem.

```
5. GPI test ----- ?? NG ??
ERROR WD=1, RD=f

PUSH RETURN KEY
```

6. When “6. Board ID test” is selected and the ID “04” is read out instead of ID “FF” of the CKG-27 board, the following display appears.

```
6. Board ID test
Board ID test =FF -----?? NG ??

PUSH RETURN KEY
```

1-7-2. Control Panel Unit

Self-Diagnostics list

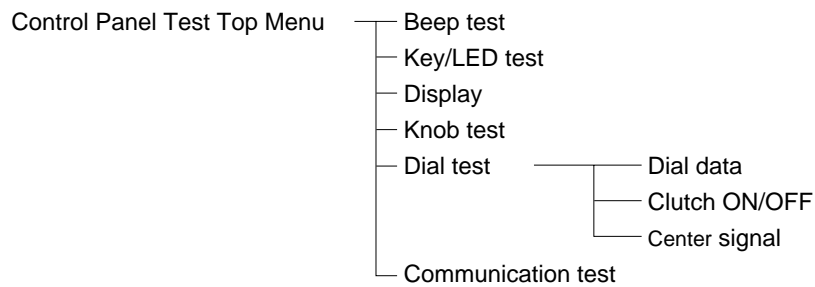
1. BEPP
2. Key data reading and turning on LED
3. DISPLAY (ASCII indicator)
4. Knob rotation data
5. Dial rotation data
 - Dial clutch ON/OFF
 - Center signal
6. UART

How to start the test mode

To start the test, turn on the main power while pressing CTL + DISS (SETUP). The system starts up in the self-diagnostics mode.

To operate the system in the normal mode, turn off the main power once then back on without pressing the above-described keys.

Test menu hierarchy



Test procedure**1. Beep test**

When ALL STOP key is pressed, beep tone sounds.

Indication on display

```

BEEP[ ][ ][ ][ ]TEST[ ][ ][ ][ ]

```

2. Key/LED test

When any key is pressed, name of the pressed key appears on display.

When the pressed key has LED, the LED turns on.

For the LEDs other than the key LED, check that they turn on when corresponding key is pressed.

Indication on display

```

KEY/LED[ ][ ][ ]TEST[ ][ ][ ][ ]

```

3. Display test

Check that the specified indication appears when the ALL STOP key is pressed.

Indication on display

```

DISPLAY[ ][ ][ ]TEST[ ][ ][ ][ ]

```

4. Knob test

The knob data appears on 7-segment display.

The KNOB 1 is assumed as P1/P3, KNOB 2 is assumed as P2/P3 and KNOB 3 is assumed as R-VTR.

Data decrements when the knob is turned counter-clockwise. Data increments when the knob is turned clockwise. Number of digits of data is 3 digits in the range of 000 to FFF. When data decrements from 000, FFF appears.

Indication on display

```

KNOB[ ][ ][ ]TEST[ ][ ][ ][ ]

```

5. Dial test

Indication on display

```

DIAL[ ][ ][ ][ ]TEST[ ][ ][ ][ ]

```

The dial data appears on 7-segment display.

The PLAYER DIAL is assumed as P1/P3, RECORDER DIAL is assumed as R-VTR.

Data decrements when the dial is turned counter-clockwise. Data increments when the dial is turned clockwise. Number of digits of data is 3 digits in the range of 000 to FFF. When data decrements from 000, FFF appears.

Status display of clutch of PLAYER side is displayed on the P1/P3 7-segment LED with left-justified.

Status display of clutch of RECORDER side is displayed on the R-VTR 7-segment LED with left-justified.

P1/P3	P2/P3	R-VTR
ON[][][][][][][]	[][][][][][][]	ON[][][][][][][]
FFF[][][][][][][]	1[][][][][][][]	FFF[][][][][][][]

The center signal data appears on the P2/P3 7-segment display. The center signal data of PLAYER is displayed with left-justified and that of RECORDER is displayed with right-justified.

When hand is removed from the dial, "1" is displayed.

When clutch is engaged ON and the dial is rotated to the clockwise or counterclockwise, "0" is displayed.

Notes

- When the SHTL key is pressed, clutch is engaged. Pressing the JOG key releases the clutch.
- Pressing the JOG key clears the counter data.

6. RS-422 test

Indication on display

```

RS-422[ ][ ][ ]TEST[ ][ ][ ][ ]

```

Press the ALL STOP key while the through-back connector (D-sub 25-pin) is connected to the PANEL connector. When the test ends in success, the following display appears.

```

RS-422[ ][ ][ ]TEST[ ][ ][ ]OK[ ]

```

When the test ends in NG, the following display appears.

```

RS-422[ ][ ][ ]TEST[ ][ ][ ]NG[ ]

```

Overall adjustment procedure

1. Beep test

Key to be operated :

Return : Returns from the beep test mode.

ALL STOP : Beep tone sounds when pressed.

- 1) Enter the beep test mode.
- 2) Press the ALL STOP key to check that beep tone sounds.
- 3) Press the return key to quit the beep test mode.

2. Key/LED test

Key to be operated :

Return : Returns from the key/LED test mode.

- 1) Enter the key/LED test mode.
- 2) Press all keys one after another and check that the key name appears on display.
When a key has LED, check that the LED also turns on.

Note

Check also that not only the key LED that corresponds to the pressed key but also the corresponding LED on the MARK IN key turns on when the RECORDER P1/P2/P3/R-VTR key is pressed.

- 3) Check that display changes as follows when the SOURCE B BACKGRND (B-BKGD) key is pressed.

```

COL BAR
↓
BKGD
↓
BLACK

```

- 4) Check that display changes as follows when the P1/P3 MODE key is pressed.

```

CTL
↓
TC
↓
P1
↓
P3
↓
SERVO

```

- 5) Check that display changes as follows when the P2/P3 MODE key is pressed.

```

CTL
↓
TC
↓
P2
↓
P3
↓
SERVO

```

- 6) Check that display changes as follows when the R-VTR MODE key is pressed.

```

CTL
↓
TC
↓
SERVO

```

- 7) Check that the 7-segment display of P1/P3 changes as follows when the P1/P3 RESET key is pressed.

```

0 0 0 0 0 0 0 0
↓
1 1 1 1 1 1 1 1
↓
2 2 2 2 2 2 2 2
↓
3 3 3 3 3 3 3 3
↓
4 4 4 4 4 4 4 4
↓
5 5 5 5 5 5 5 5
↓
6 6 6 6 6 6 6 6
↓
7 7 7 7 7 7 7 7
↓
8 8 8 8 8 8 8 8
↓
9 9 9 9 9 9 9 9
↓
. . . . . . . .

```

- 8) Check that the same message appears as in step 7) on the 7-segment display of P2/P3 when the P2/P3 RESET key is pressed.
- 9) Check that the same message appears as in step 7) on the 7-segment display of R-VTR when the R-VTR key is pressed.

- 10) Check that one LED turns on after another as follows when the SELECT key is pressed.

BKGD (Above the knob)

↓

WIDTH (Above the knob)

↓

COLOR (Above the knob)

↓

KEY (Above the knob)

↓

MATTE (Above the knob)

↓

FADER (Above the knob)

↓

LUM (Below the knob)

↓

SAT (Below the knob)

↓

HUE (Below the knob)

↓

WIDTH (Below the knob)

↓

SOFT (Below the knob)

↓

FADER (Below the knob)

↓

CLIP (Below the knob)

↓

GAIN (Below the knob)

↓

DENSITY (Below the knob)

↓

AUDIO BASE (Below the knob)

↓

NEW EDIT (Below the knob)

- 11) Check that the dial direction LED REVERSE below the key turns on when the PLAYER SHTL key is pressed.
At this time, the STILL (center) and the FORWARD LED must be turned off.
- 12) Check that the dial direction LED STILL (center) below the key turns on when the PLAYER JOG key is pressed.
At this time, the REVERSE and the FORWARD LED must be turned off.
- 13) Check that the dial direction LED FORWARD below the key turns on when the PLAYER DMC key is pressed.
At this time, the STILL (center) and the REVERSE LED must be turned off.

- 14) Check that the dial direction LED REVERSE below the key turns on when the RECORDER SHTL key is pressed.
At this time, the STILL (center) and the FORWARD LED must be turned off.

- 15) Check that the dial direction LED STILL (center) below the key turns on when the RECORDER JOG key is pressed.
At this time, the REVERSE and the FORWARD LED must be turned off.

- 16) Check that the dial direction LED FORWARD below the key turns on when the RECORDER DMC key is pressed.
At this time, the STILL (center) and the REVERSE LED must be turned off.

3. Display test

Key to be operated :

Return : Returns from the display test mode.

ALL STOP : Displayed characters change when pressed

- 1) Enter the display test mode.
- 2) Check that the following characters change when the ALL STOP key is repeatedly pressed.

> I S P L A Y T E S T

↓

0 1 2 3 4 5 6 7 8 9 A B C D E F

↓

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

↓

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

↓

2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

↓

3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

↓

4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

↓

5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

↓

6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

↓

7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

↓

8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

↓

9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

↓

All characters disappear.

↓

■ ■

- 3) Press the return key to quit the display test mode.

4. Knob test

Key to be operated :

Return : Returns from the knob test mode.

- 1) Enter the knob test mode.
- 2) Check that the data on 7-segment display changes when the knobs 1, 2 and 3 are rotated.
Data changes by +1 when knob is rotated in clockwise direction. Data changes by -1 when knob is rotated in counter-clockwise direction. Data is displayed in hexadecimal number in the range of 000 to FFF.

P1/P3 □□□□□□□□ KNOB_1	P2/P3 □□□□□□□□ KNOB_2	R-VTR □□□□□□□□ KNOB_3
-----------------------------	-----------------------------	-----------------------------

5. Dial test

Key to be operated :

Return : Returns from the dial test mode.

PLAYER_SHTL : Used to turn on the player dial clutch.

PLAYER_JOG : Used to turn off the player dial clutch and clears the counter value.

RECORDER_SHTL : Used to turn on the recorder dial clutch

RECORDER_JOG : Used to turn off the recorder dial clutch and clears the counter value.

- 1) Enter the dial test mode.
- 2) Check that counter value starts counting up from 0 when the player dial is rotated clockwise as follows.
For the counter value in the range of 000, 001, 002, 003, up to 00f, rotate the player dial slowly to check that the least significant bit starts counting up. Then rotate the player dial swiftly to check that the most significant bit counts up from 1 up to F (100 to F00).
- 3) Press the PLAYER_JOG key to set counter to 000.
- 4) Check that counter value starts counting down from 000, FFF, FFE, FFd, to FF0 when the player dial is rotated counter-clockwise (that is the opposite direction of step 2) as follows.
For the counter value in the range of 000, FFF, FFE, FFd, to FF0, rotate the player dial slowly to check that the least significant bit starts counting down. Then rotate the player dial swiftly to check that the most significant bit counts down from F up to 1 (F00 to 100).

P1/P3 □□□□□□□□

- 5) Perform step 2) to step 4) using the recorder dial.

R-VTR □□□□□□□□

- 6) Press the PLAYER_SHTL key and check that the player dial clutch turns on.
The message ON appears on the display area.

P1/P3 □N□□□□□□

- 7) Check the center signal when the PLAYER dial is rotated in the clockwise and counterclockwise as follows.
Check that "1" is displayed when hand is removed from the dial. Check that "0" is displayed when the dial is rotated to the clockwise or counterclockwise.

P2/P3 □1□□□□□□ □0□□□□□□

- 8) Press the PLAYER_JOG key and check that clutch is turned off.
The message OFF appears on the display area.

P1/P3 □F□□□□□□

- 9) Perform step 6) using the recorder dial.
The message ON appears on the display area.

R-VTR □N□□□□□□

- 10) Perform step 7) using the recorder dial.

P2/P3 □□□□□□□1 □□□□□□□0

- 11) Perform step 8) using the recorder dial.
The message OFF appears on the display area.

R-VTR □F□□□□□□

- 12) Press the return key to quit the dial test mode.

6. RS-422 test

Key to be operated :

Return : Returns from the RS-422 test mode.

- 1) Enter the RS-422 test mode.

When the test ends in success, the following display appears.

RS-422 TEST OK

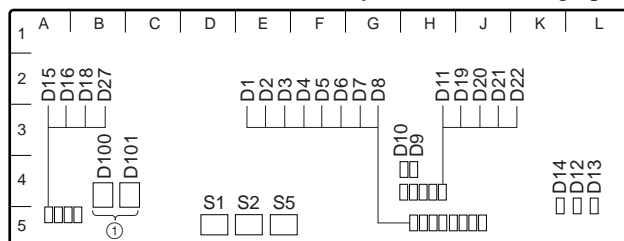
When the test ends in NG, the following display appears.

RS-422 TEST NG

- 2) Press the return key to quit the RS-422 test mode.

1-7-3. Error Messages

Error codes are shown as follows. The error codes appear on 7-segment LED ① D100, D101 on the CPU-317 board when abnormality is detected during operation.



(A side/Component side)

The error codes indicate the following contents. When two or more errors occur, the error codes appear in the chronological order.

Error code	Front panel display	Error contents
E0 and 01 alternately	Flashes in red	CPU-317A board backup RAM (IC41) read/write check error
E0 and 02 alternately	Flashes in red	MEM-94A board backup RAM read/write check error
E0 and 03 alternately	Flashes in red	CG I/F RAM (IC652/CKG-27 board) read/write check error
E0 and 04 alternately	Flashes in red	SIO1 I/F RAM (IC401/CKG-27 board) read/write check error
E0 and 05 alternately	Flashes in red	Initialization error Initialization of SIO1 (IC402/CKG-27 board) has not normally ended.
E1 and 01 alternately	Turns off	AC error AC error occurs in the power unit.
E1 and 02 alternately	Turns off	DC error DC error occurs in the power unit.
E1 and 03 alternately	Flashes in red	Fuse abnormality Abnormality occurs in fuse (F201) on the IO-193 board. Replace fuse after investigating cause of error.
E1 and 04 alternately	Flashes in red	Fuse abnormality Abnormality occurs in fuse (F001) on the MIX-42 board. Replace fuse after investigating cause of error.
E1 and 05 alternately	Flashes in red	Control panel power supply abnormality Over-current is detected. Check the connection cables and control panel. Then turn on the main power again.
E1 and 06 alternately	Turns on in red	Power supply built-in fan error Abnormality occurs in fan inside the power supply unit. If fan is found defective, replace the power supply unit.
E1 and 07 alternately	Flashes in red	Side panel fan error Abnormality occurs in fan on the side panel. If fan is found defective, replace the fan unit.
E1 and 08 alternately	Flashes in red	Rear panel fan error Abnormality occurs in fan on the rear panel. If fan is found defective, replace the fan.
E1 and 09 alternately	Flashes in red	IO-193 board fan 1 error If fan is found defective, replace the fan.
E1 and 10 alternately	Flashes in red	IO-193 board fan 2 error If fan is found defective, replace the fan.
E1 and 11 alternately	Flashes in red	IO-193 board fan 3 error If fan is found defective, replace the fan.
E1 and 12 alternately	Flashes in red	IO-193 board fan 4 error If fan is found defective, replace the fan.
E1 and 13 alternately	Flashes in green	Reference input signal abnormality Check connections. Connect the right reference input signal.
00	Turns on in green	Normal operation No abnormality is detected indicating the normal operation.

Section 2

Electrical Alignment

2-1. Clamp Position Adjustment (CKG-27 Board Adjustment)

This adjustment is necessary only when the control RV201 (clamp position adjustment) on the CKG-27 board is replaced. Perform this adjustment in the equipment configuration in which CKG-27 assembly is installed in BVE-700.

Note

The CKG-27 assembly that is supplied as repair part has already adjusted before shipment from the factory. Therefore, any adjustment is not necessary.

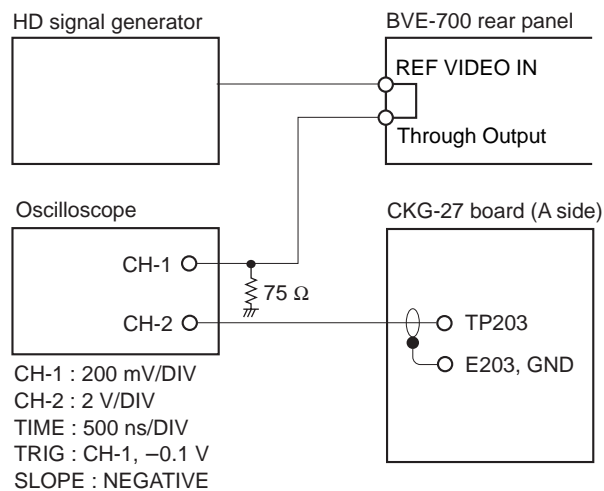
Tools and equipment required

HD signal generator : ShibaSoku TG37AX or equivalent

Oscilloscope : Tektronix 2465 or equivalent

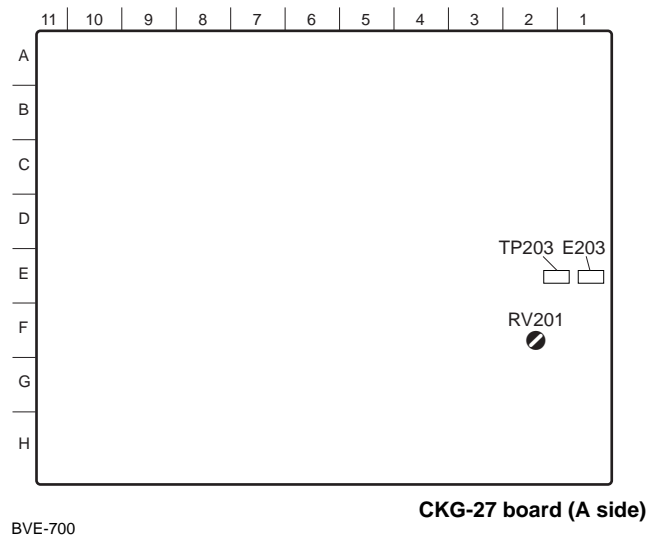
Extension board EX-726 (Sony part number : A-8326-325-A)

Connection



Note

Set the HD signal generator to the 1080i/59.94 signal format.



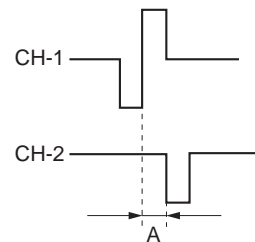
Adjustment procedure

1. Extend the CKG-27 assembly using the extension board EX-726. (Refer to Section 1-6.)
2. Connect the 3-value sync signal from the HD signal generator to the REF VIDEO IN connector of BVE-700.
3. Terminate the THRU OUT signal of the REF VIDEO connector of BVE-700 in 75-ohms. Connect CH-1 probe of an oscilloscope across the 75-ohm terminator.
4. Connect CH-2 probe of an oscilloscope to TP203 (E-1) and E203 (E-1) of the CKG-27 board.

5. Adjustment

Adjustment point : RV201 (F-2)/CKG-27 board

Specification : $A = 0.65 \pm_{-0.50}^{0} \mu s$



Setting after adjustment

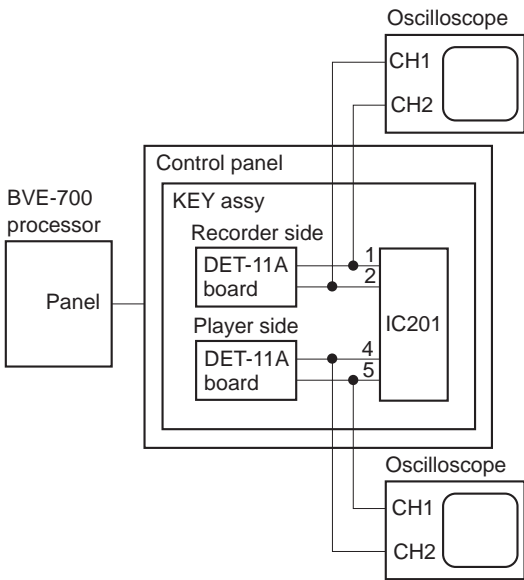
1. Turn off the main power of BVE-700 and remove the extension board EX-726.
2. Install the CKG-27 assembly to BVE-700.

2-2. Control Panel Adjustment

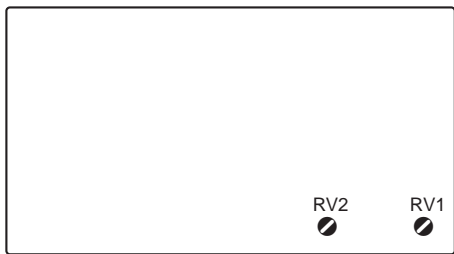
Tools and equipment required

Oscilloscope : Tektronix 2465 or equivalent

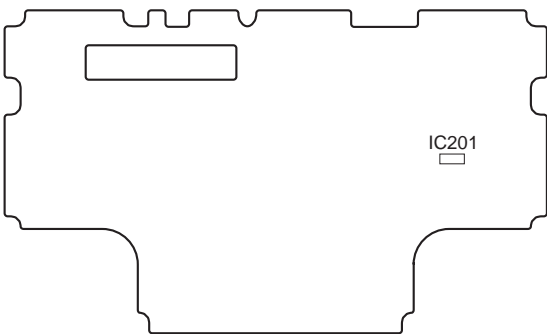
Connection



Adjustment location



DET-11A board (A side)



KEY ASSY (B side)

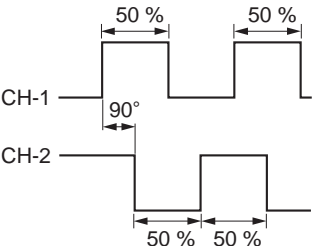
2-2-1. Search Dial Pulse Amplifier Adjustment of Player Side

Preparation

1. Set up the JOG mode. While rotating the SEARCH dial, turn RV1 on the DET-11A board to the clockwise and counterclockwise.
Set RV1 in the center between the following two points: One is the point where pulse starts appearing at IC201 pin-5 on the KEY assembly when RV1 is turned to the counterclockwise. The other is the point where pulse starts appearing at IC201 pin-5 (same pin) on the KEY assembly when RV1 is turned to the clockwise.
2. In the same manner as step 1, adjust RV2 on the DET-11A board with reference to the pulse at IC201 pin-4 on the KEY assembly.
3. Connect an oscilloscope to the following points and establish the following setup of an oscilloscope.
CH-1 : IC201 pin-5/KEY assembly, 2 V/DIV
CH-2 : IC201 pin-4/KEY assembly, 2 V/DIV
TIME : 2 ms/DIV
TRIG : CH-1

Adjustment procedure

1. Rotate the SEARCH dial in the FWD direction.
2. Adjust phase of the signals at pin-5 and pin-4 of IC201 on the KEY assembly as follows.
Adjustment point : RV1/DET-11A board
 RV2/DET-11A board
Measurement point : IC201 pin-5/KEY assembly
 IC201 pin-4/KEY assembly
Specification : Duty ratio : 50%
 Phase difference between
 CH-1 and CH-2 : 90 degrees

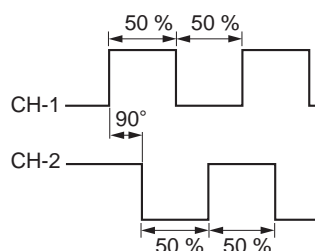


3. Rotate the SEARCH dial in the REV direction.
4. Adjust phase of the signals at pin-5 and pin-4 of IC201 on the KEY assembly as follows.

Adjustment point : ⚙RV1/DET-11A board
⚙RV2/DET-11A board

Measurement point : IC201 pin-5/KEY assembly
IC201 pin-4/KEY assembly

Specification : Duty ratio : 50%
Phase difference between
CH-1 and CH-2 : 90 degrees



2-2-2. Search Dial Pulse Amplifier Adjustment of Recorder Side

Preparation

1. Set up the JOG mode. While rotating the SEARCH dial, turn RV1 on the DET-11A board to the clockwise and counterclockwise.

Set RV1 in the center between the following two points : One is the point where pulse starts appearing at IC201 pin-2 on the KEY assembly when RV1 is turned to the counterclockwise. The other is the point where pulse starts appearing at IC201 pin-2 (same pin) on the KEY assembly when RV1 is turned to the clockwise.

2. In the same manner as step 1, adjust RV2 on the DET-11 board with reference to the pulse at IC201 pin-1 on the KEY assembly.
3. Connect an oscilloscope to the following points and establish the following setup of an oscilloscope.

CH-1 : IC201 pin-2/KEY assembly, 2 V/DIV

CH-2 : IC201 pin-1/KEY assembly, 2 V/DIV

TIME : 2 ms/DIV

TRIG : CH-1

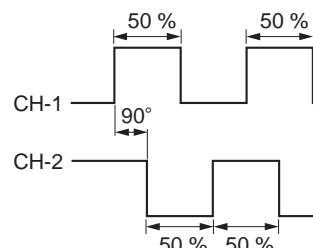
Adjustment procedure

1. Rotate the SEARCH dial in the FWD direction.
2. Adjust phase of the signals at pin-2 and pin-1 of IC201 on the KEY assembly as follows.

Adjustment point : ⚙RV1/DET-11A board
⚙RV2/DET-11A board

Measurement point : IC201 pin-2/KEY assembly
IC201 pin-1/KEY assembly

Specification : Duty ratio : 50%
Phase difference between
CH-1 and CH-2 : 90 degrees

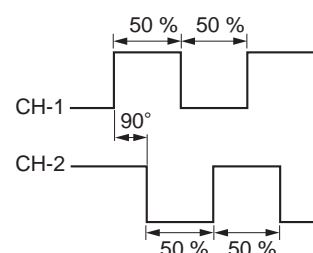


3. Rotate the SEARCH dial in the REV direction.
Adjust phase of the signals at pin-2 and pin-1 of IC201 on the KEY assembly as follows.

Adjustment point : ⚙RV1/DET-11A board
⚙RV2/DET-11A board

Measurement point : IC201 pin-2/KEY assembly
IC201 pin-1/KEY assembly

Specification : Duty ratio : 50%
Phase difference between
CH-1 and CH-2 : 90 degrees



2-3. -5 V_MDL Power Voltage Adjustment (IO-193 Board Adjustment)

This adjustment is necessary only when the control RV201 (-5 V_MDL power voltage adjustment) on the IO-193 board (BKE-701) is replaced.
Perform this adjustment in the equipment configuration in which IO-193 is installed in BVE-700.

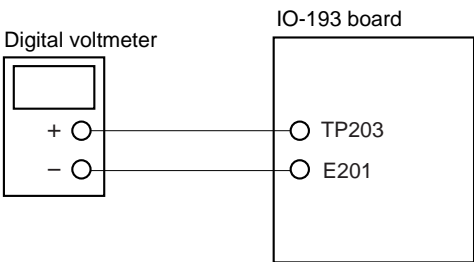
Note

The IO-193 board that is supplied as repair part has already adjusted before shipment from the factory. Therefore, any adjustment is not necessary.

Tools and equipment required

Digital voltmeter
Extension board EX-726 (Sony part number : A-8326-325-A)

Connection



Adjustment location



Adjustment procedure

- 1. Extend the IO-193 board using the extension board EX-726. (Refer to Section 1-6.)
- 2. Connect a digital voltmeter between TP203 (G-1) and E201 (J-2) on the IO-193 board
- 3. Adjust RV201 (J-1) on the IO-193 board until the TP203 voltage satisfies the specifications.

Adjustment point : ●RV201 (J-1)/IO-193 board
Specification : TP203 voltage = -5.10 ±0.05 V

Setting after adjustment

- 1. Turn off the main power of BVE-700 and remove the extension board EX-726.
- 2. Install the IO-193 board to BVE-700.

Section 3

Spare Parts

3-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked △ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

Parts list has the present standardized repair parts.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Harness

Harnesses with no part number are not registered as spare parts.

In need of repair, get components shown in the list and repair using them.

3-1. 補修部品注意事項

1. 安全重要部品

△ 警告

△印のついた部品は安全性を維持するために重要な部品です。したがって、交換する時は必ず指定の部品を使ってください。

2. 部品の共通化

ソニーから供給する補修用部品は、セットに使われているものと異なることがあります。

これは部品の共通化、改良等によるものです。

部品表には現時点での共通化された補修用部品が記載されています。

3. 部品の在庫

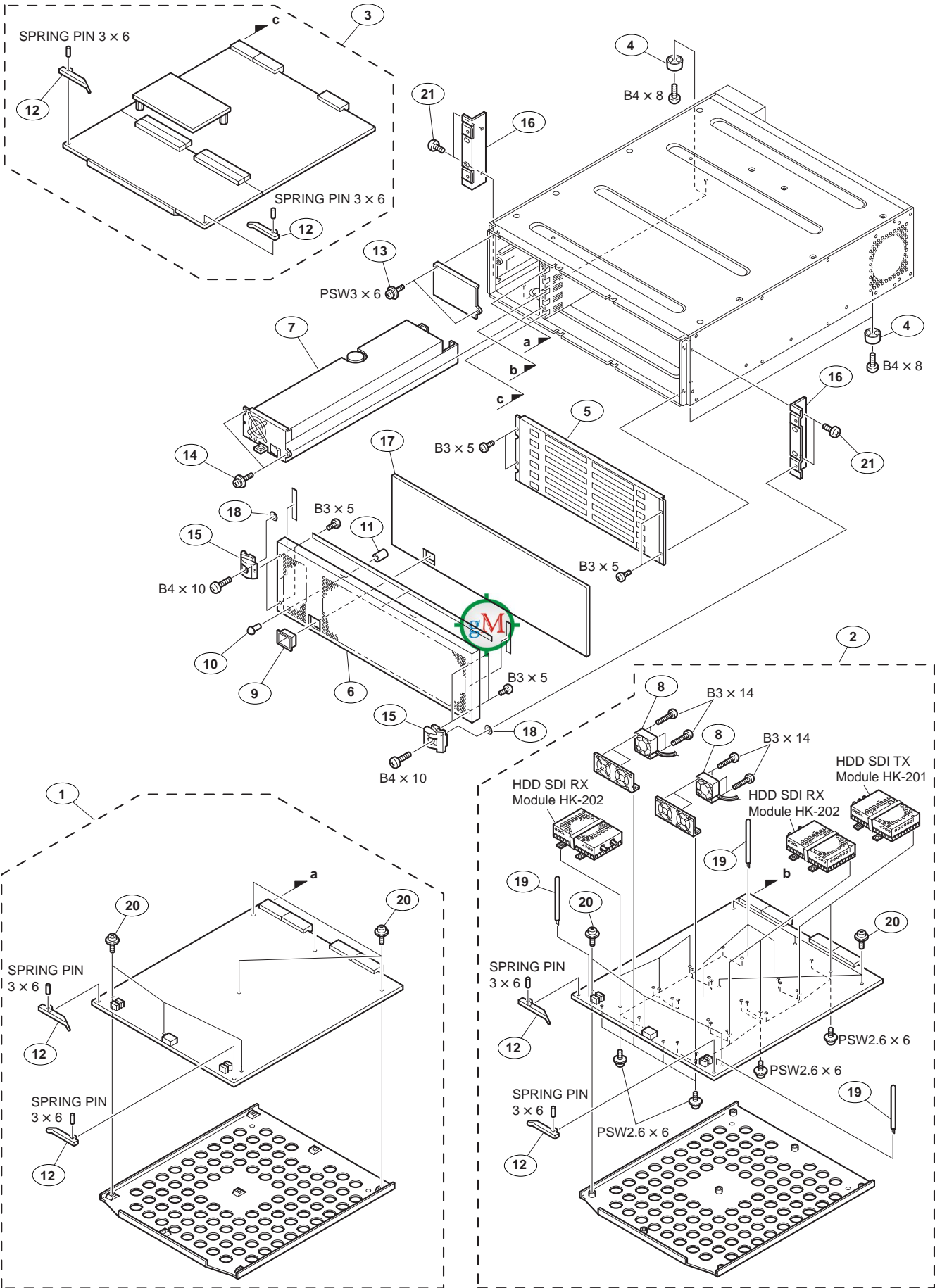
部品表のSP (Supply code) 欄に “o” で示される部品は在庫していないことがあり、納期が長くなることがあります。

4. ハーネス

部品番号が記載されていないハーネスは、サービス部品として登録されていません。

これらは、リストに展開されているコンポーネント部品で補修してください。

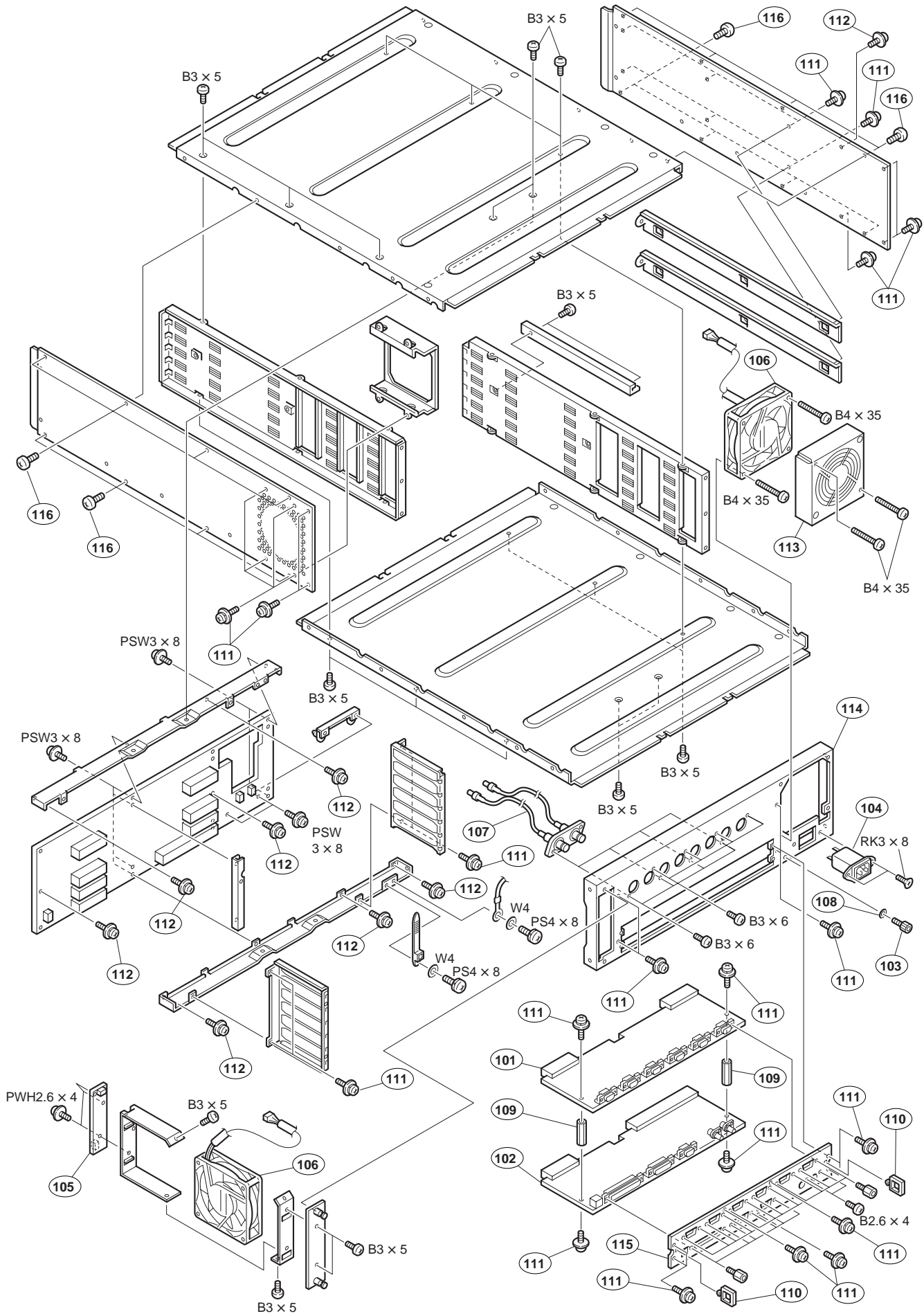
3-2. Exploded Views



No.	Part No.	SP	Description
1	A-8325-928-A	o	MOUNTED CIRCUIT BOARD, MIX-42
2	A-8325-930-A	o	MOUNTED CIRCUIT BOARD, IO-193
3	A-8326-081-A	s	CKG-27B ASSY
4	X-3316-715-1	s	FOOT ASSY
5	X-3605-826-1	o	STOPPER ASSY, SWITCH BOARD
6	X-3605-848-2	o	PANEL SUB ASSY, FRONT
7	△ 1-468-480-11	s	REGULATOR, SWITCHING
8	1-763-127-11	s	MOTOR, DC FAN
9	3-189-023-02	o	COVER, SW
10	3-193-264-01	o	ACRYLIC, PW
11	3-200-188-01	o	FRAME, OUTER
12	3-624-100-02	o	LEVER, PWB
13	3-624-821-01	s	SCREW +PSW3X6
14	3-624-822-01	s	SCREW +PSW3X8
15	3-624-859-02	o	BRACKET, PANEL
16	3-625-953-02	o	BRACKET (3U), RACK MOUNT
17	3-628-313-01	o	FILTER (3U)
18	3-650-537-00	o	WASHER (PLA)
19	3-683-631-01	o	CLAMP
20	3-703-249-01	s	SCREW +PTTWH3X6
21	3-733-690-01	s	SCREW +B4X6 (ST)

Screws/Washers

7-621-759-45	s	SCREW +PSW2.6X6
7-626-300-54	o	SPRING PIN 3X6
7-682-551-04	s	SCREW +B3X14
7-682-561-04	s	SCREW +B4X8
7-682-562-04	s	SCREW +B4X10
7-682-546-04	s	SCREW +B3X5

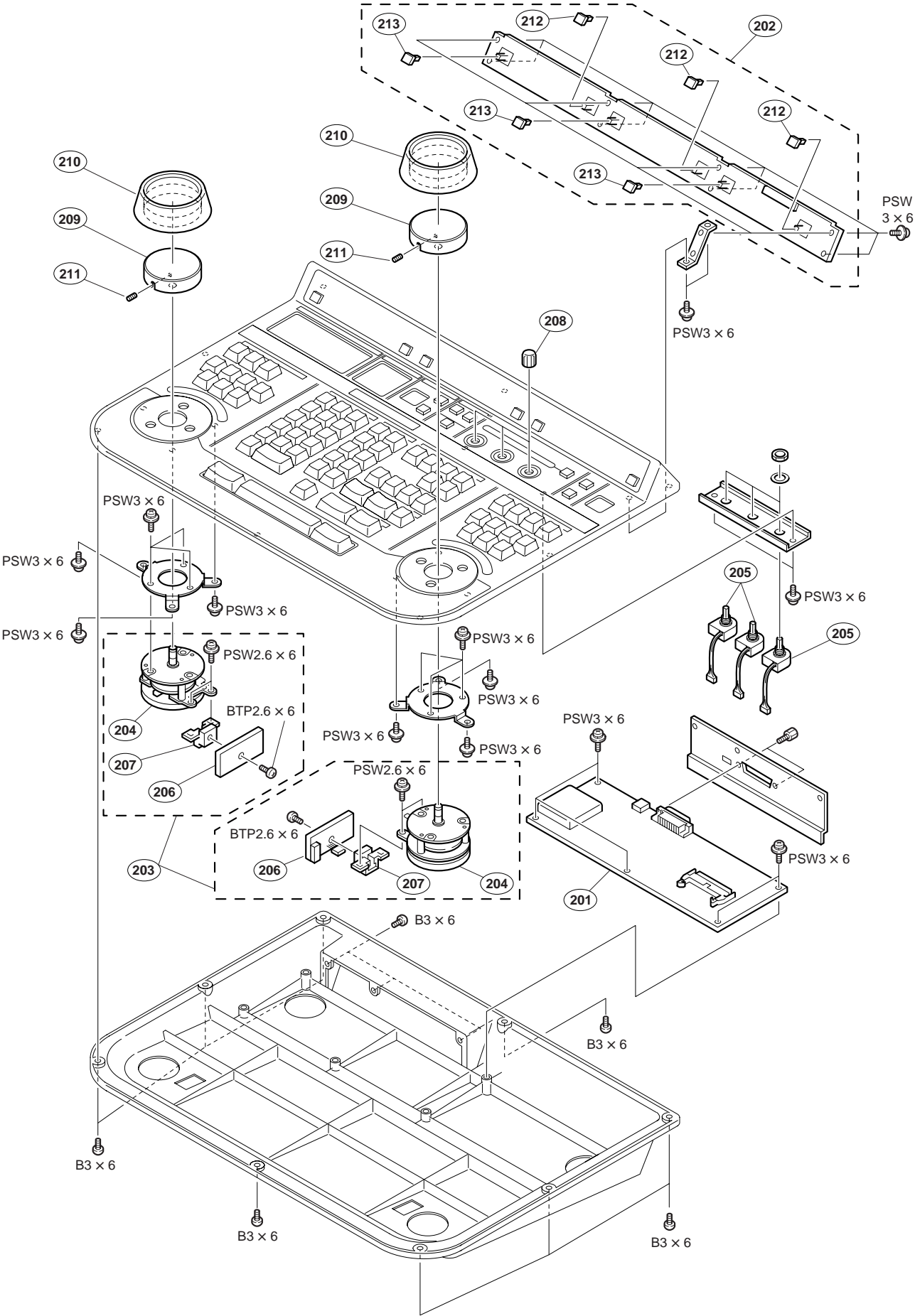


No.	Part No.	SP	Description
101	A-8325-482-A	o	MOUNTED CIRCUIT BOARD, CN-1915
102	A-8325-484-A	o	MOUNTED CIRCUIT BOARD, CN-1916
103	X-2068-004-0	s	TERMINAL ASSY
104	△ 1-251-384-11	s	INLET (WITH NOISE FILTER)
105	1-676-352-12	o	PRINTED WIRING BOARD, HN-276
106	1-698-890-13	s	DC FAN (92 SQUARE)
107	1-792-670-11	o	CABLE ASSY, COAXIAL
108	2-068-008-00	s	WASHER
109	2-376-523-00	o	SUPPORT
110	3-172-089-01	o	HANDLE
111	3-624-821-01	s	SCREW +PSW3X6
112	3-624-822-01	s	SCREW +PSW3X8
113	3-625-959-01	o	COVER, FAN
114	3-626-851-01	o	PANEL, REAR
115	3-626-852-03	o	PANEL, CONNECTOR
116	3-733-690-01	s	SCREW +B4X6 (ST)

Screws/Washers

7-621-773-86	s	SCREW +B2.6X4
7-682-348-09	s	SCREW +RK3X8
7-682-546-04	s	SCREW +B3X5
7-682-569-04	s	SCREW +B4X35
7-682-661-01	s	SCREW +PS4X8
7-682-902-01	s	SCREW +PWH 2.6X4
7-682-948-01	s	SCREW +PSW3X8
7-688-004-11	o	WASHER W4 (M)

Control Panel-1

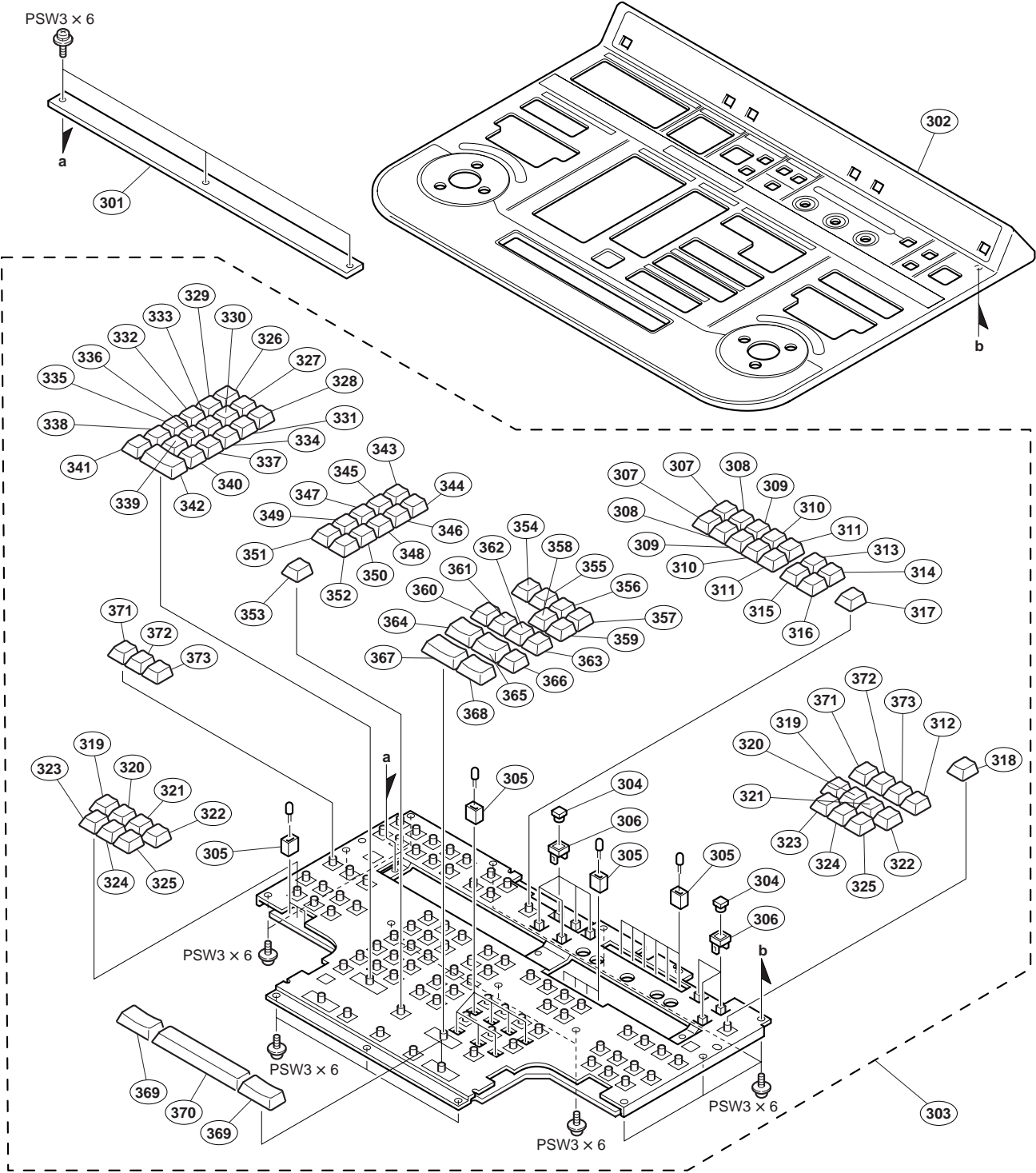


No.	Part No.	SP	Description
201	A-8325-475-A	o	MOUNTED CIRCUIT BOARD, IF-766
202	A-8325-477-A	o	MOUNTED CIRCUIT BOARD, DP-309
203	A-8325-926-A	o	CLUTCH ASSY (A)
204	1-454-569-14	s	CLUTCH, ELECTROMAGNETIC
205	1-466-955-11	s	ENCODER, ROTARY
206	1-633-840-13	o	PRINTED WIRING BOARD, DET-11
207	2-143-746-02	o	HOLDER, DME
208	3-178-147-02	s	KNOB, VOLUME
209	3-179-185-01	o	DIAL, SERCH
210	3-626-840-02	s	COVER, DIAL
211	3-701-510-00	s	SET-SCREW, HEXGON 4X4 (WP) ST
212	4-920-509-01	o	CAP, KEY
213	4-920-509-11	o	CAP, KEY

Screws/Washers

7-621-759-40	s	SCREW +PSW2.6X6
7-682-547-09	s	SCREW +B3X6
7-682-947-01	s	SCREW +PSW3X6
7-685-533-14	s	SCREW +BTP2.6X6

Control Panel-2



No.	Part No.	SP	Description
301	A-8325-471-A	o	MOUNTED CIRCUIT BOARD, DP-314
302	X-3605-851-1	o	PANEL ASSY
303	1-476-026-11	o	KEY ASSY
304	3-626-839-01	o	CAP, SWITCH
305	3-626-850-01	o	HOLDER, LED
306	3-708-962-01	s	FRAME (LZ 2310)
307	3-709-577-01	s	KEY TOP (D-1), P1
308	3-709-577-11	s	KEY TOP (D-1), P2
309	3-709-577-21	s	KEY TOP (D-1), AUX/P3
310	3-709-577-31	s	KEY TOP (D-1), BACK GRND
311	3-709-577-41	s	KEY TOP (D-1), R-VTR
312	3-709-577-51	s	KEY TOP (D-1), R-VTR
313	3-709-578-01	s	KEY TOP (D-1), CUT
314	3-709-578-11	s	KEY TOP (D-1), DISS
315	3-709-578-21	s	KEY TOP (D-1), WIPE
316	3-709-578-31	s	KEY TOP (D-1), MAN
317	3-709-579-01	s	KEY TOP (D-1), TITLE
318	3-709-580-01	s	KEY TOP (D-1), EFF OUT
319	3-709-581-01	s	KEY TOP (D-1), PLAY
320	3-709-581-11	s	KEY TOP (D-1), STILL
321	3-709-581-21	s	KEY TOP (D-1), REW
322	3-709-581-31	s	KEY TOP (D-1), FF
323	3-709-581-41	s	KEY TOP (D-1), SHTL
324	3-709-581-51	s	KEY TOP (D-1), JOG
325	3-709-581-61	s	KEY TOP (D-1), DMC
326	3-709-582-01	s	KEY TOP (D-1), 7
327	3-709-582-11	s	KEY TOP (D-1), 8
328	3-709-582-21	s	KEY TOP (D-1), 9
329	3-709-582-31	s	KEY TOP (D-1), 4
330	3-709-582-41	s	KEY TOP (D-1), 5
331	3-709-582-51	s	KEY TOP (D-1), 6
332	3-709-582-61	s	KEY TOP (D-1), 1
333	3-709-582-71	s	KEY TOP (D-1), 2
334	3-709-582-81	s	KEY TOP (D-1), 3
335	3-709-582-91	s	KEY TOP (D-1), 0
336	3-709-583-01	s	KEY TOP (D-1), 00
337	3-709-583-11	s	KEY TOP (D-1), C
338	3-709-583-21	s	KEY TOP (D-1), -
339	3-709-583-31	s	KEY TOP (D-1), +
340	3-709-583-41	s	KEY TOP (D-1), F/TC
341	3-709-583-51	s	KEY TOP (D-1), CTRL
342	3-709-583-61	s	KEY TOP (D-2), ENTER
343	3-709-584-01	s	KEY TOP (D-1), TRIM-1
344	3-709-584-11	s	KEY TOP (D-1), TRIM+1
345	3-709-584-21	s	KEY TOP (D-1), IN
346	3-709-584-31	s	KEY TOP (D-1), OUT
347	3-709-584-41	s	KEY TOP (D-1), EFF
348	3-709-584-51	s	KEY TOP (D-1), SPLIT
349	3-709-584-61	s	KEY TOP (D-1), TOTAL
350	3-709-584-71	s	KEY TOP (D-1), DUR
351	3-709-584-81	s	KEY TOP (D-1), PTRN NO
352	3-709-584-91	s	KEY TOP (D-1), TRANS TIME
353	3-709-585-01	s	KEY TOP (D-1), GO TO
354	3-709-586-01	s	KEY TOP (D-1), A1
355	3-709-586-11	s	KEY TOP (D-1), A2
356	3-709-586-21	s	KEY TOP (D-1), A3
357	3-709-586-31	s	KEY TOP (D-1), A4
358	3-709-586-41	s	KEY TOP (D-1), V
359	3-709-586-51	s	KEY TOP (D-1), ASMBL
360	3-709-587-01	s	KEY TOP (D-1), CLEAR
361	3-709-587-11	s	KEY TOP (D-1), LAST X
362	3-709-587-21	s	KEY TOP (D-1), TIME TRACK
363	3-709-587-31	s	KEY TOP (D-1), MARK SPEED
364	3-709-588-01	s	KEY TOP (D-1.5), MARK IN
365	3-709-588-11	s	KEY TOP (D-1.5), MARK OUT

No.	Part No.	SP	Description
366	3-709-588-21	s	KEY TOP (D-1), MARK SPLIT
367	3-709-589-01	s	KEY TOP (D-2), REC/REC OFF
368	3-709-589-11	s	KEY TOP (D-1.5), PREVIEW
369	3-709-590-01	s	KEY TOP (C-2), SHIFT
370	3-709-591-01	s	KEY TOP (A-5), ALL STOP
371	3-709-592-01	s	KEY TOP (D-1), P1
372	3-709-592-11	s	KEY TOP (D-1), P2
373	3-709-592-21	s	KEY TOP (D-1), P3

Screws/Washers

7-682-947-01 s SCREW +PSW 3X6

3-3. Electrical Parts List

3-3-1. BVE-700

CKG-27B ASSY

Ref. No. or Q'ty	Part No.	SP Description
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1pc	A-8326-081-A	o CKG-27B ASSY
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The CKG-27B ASSY is comprised of CKG-27, CPU-317A and MEM-94A boards.

- Refer to the CKG-27 board parts list about parts on the CKG-27 board.
- Refer to the CPU-317A board parts list about parts on the CPU-317A board.
- Refer to the MEM-94A board parts list about parts on the MEM-94A board.

CKG-27 BOARD

Ref. No. or Q'ty	Part No.	SP Description
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(The CKG-27 mounted circuit board is included in the CKG-27B ASSY.)

11pcs	4-886-821-11	s SCREW,M3X6 CASE (SILVER)
2pcs	7-682-903-01	s SCREW +PWH 3X5(EP-FE/ZN/CM2)
4pcs	4-382-854-11	s SCREW,+PSW M3X10(EP-FE/ZNBK/CM
4pcs	7-684-023-04	s NUT M3 TYPE2
2pcs	2-280-622-21	s SUPPORT (M3),HEXAGON
2pcs	7-682-903-01	s SCREW +PWH 3X5(EP-FE/ZN/CM2)
4pcs	7-685-104-21	s SCREW,+PTP 2X6(EP-FE/ZN/CM2)
C101	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C
C102	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C
C103	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C
C104	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C105	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C106	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C107	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C108	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C109	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C110	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C111	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C112	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C113	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C114	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C115	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C116	1-163-135-00	s CAPACITOR,CHIP CERAMIC 560PF
C117	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C118	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C119	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C120	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C121	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C122	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C123	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C
C124	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C125	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C
C126	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C127	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C128	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C129	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C130	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C131	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C132	1-163-135-00	s CAPACITOR,CHIP CERAMIC 560PF
C133	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C134	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C135	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C136	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C137	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C138	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C139	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C140	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C
C141	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C
C142	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C143	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C144	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C
C145	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C
C146	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C
C147	1-115-783-11	s CAPACITOR,ELECT 220MF/25V 105C

(CKG-27 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C272	1-163-275-11	s	CAPACITOR,CERAMIC 1000PF/50V
C273	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C274	1-163-023-00	s	CAPACITOR,CHIP CERAMIC 0.015MF
C275	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C276	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C277	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C278	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C279	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C280	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C281	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C282	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C283	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C284	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C285	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C286	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C287	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C288	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C289	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C290	1-163-113-00	s	CAPACITOR,CHIP CERAMIC 68PF/50
C291	1-163-113-00	s	CAPACITOR,CHIP CERAMIC 68PF/50
C292	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C293	1-126-404-11	s	CAPACITOR,ELECT4.7MF/50V(CHIP)
C294	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C295	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C296	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C301	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C302	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C303	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C304	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C305	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C306	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C307	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C308	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C309	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C310	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C311	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C312	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C313	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C314	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C315	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C316	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C317	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C318	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C319	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C320	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C321	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C322	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C323	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C324	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C325	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C326	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C327	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C328	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C351	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C352	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C353	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C354	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C355	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C356	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V

(CKG-27 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C357	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C358	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C359	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C360	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C361	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C362	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C363	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C364	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C401	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C402	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C403	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C404	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C405	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C406	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C407	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C408	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C409	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C410	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C411	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C412	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C413	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C414	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C415	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C416	1-107-682-11	s	CAPACITOR,CHIP 1MF/16V (3216)
C417	1-107-682-11	s	CAPACITOR,CHIP 1MF/16V (3216)
C418	1-107-682-11	s	CAPACITOR,CHIP 1MF/16V (3216)
C419	1-107-682-11	s	CAPACITOR,CHIP 1MF/16V (3216)
C420	1-107-682-11	s	CAPACITOR,CHIP 1MF/16V (3216)
C421	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C521	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C522	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C523	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C524	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C525	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C526	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C527	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C528	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C529	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C530	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C531	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C532	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C533	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C534	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C551	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C552	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C553	1-126-193-11	s	CAPACITOR,ELECT 1MF/50V (CHIP)
C554	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C556	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C557	1-126-193-11	s	CAPACITOR,ELECT 1MF/50V (CHIP)
C558	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C561	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C562	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C563	1-126-193-11	s	CAPACITOR,ELECT 1MF/50V (CHIP)
C564	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C566	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C567	1-126-193-11	s	CAPACITOR,ELECT 1MF/50V (CHIP)
C568	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C584	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C601	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
C602	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C603	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C604	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C605	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C606	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C607	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C608	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C609	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C610	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C611	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C612	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C613	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C614	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C615	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C616	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C617	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C618	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C651	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C652	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C653	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C654	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C655	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C681	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C682	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C683	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C684	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1001	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1002	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C1003	1-107-781-11	s	CAPACITOR,ELECT 47MF/16V(BP)
C1004	1-115-153-11	s	CAPACITOR,ELECT 4.7MF/16V(BP)
C1005	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1006	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C1007	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1008	1-127-950-11	s	CAPACITOR,CHIP FILM 0.01MF
C1009	1-115-153-11	s	CAPACITOR,ELECT 4.7MF/16V(BP)
C1010	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1011	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1012	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C1013	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1014	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1015	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1016	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1017	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1022	1-162-921-11	s	CAPACITOR,CERAMIC 33PF/50V CH
C1023	1-162-924-11	s	CAPACITOR,CERAMIC 56PF/50V CH
C1024	1-164-155-11	s	CAPACITOR,CERAMIC 75PF/50V CH
C1025	1-164-383-11	s	CAPACITOR,CERAMIC 110PF/50V CH
C1026	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1027	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1028	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1029	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
CN2	1-766-693-11	o	CONNECTOR, BOARD TO BOARD 40P
CN3	1-766-693-11	o	CONNECTOR, BOARD TO BOARD 40P
CN11	1-766-365-11	s	CONNECTOR, BOARD TO BOARD 128P
CN12	1-766-365-11	s	CONNECTOR, BOARD TO BOARD 128P
CN333	1-785-584-11	s	PIN, CONNECTOR 6P
CN1001	1-566-311-11	s	HEADER 10P,CONNECTOR

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Ref. No. or Q'ty	Part No.	SP	Description
D101	8-719-064-69	s	DIODE DE10SC3L-TA
D102	8-719-064-69	s	DIODE DE10SC3L-TA
D103	8-719-210-60	s	DIODE F25P04QS
D104	8-719-210-60	s	DIODE F25P04QS
D105	8-719-800-76	s	DIODE 1SS226
D106	8-719-800-76	s	DIODE 1SS226
D107	8-719-800-76	s	DIODE 1SS226
D108	8-719-800-76	s	DIODE 1SS226
D201	8-719-975-84	s	LED AY1101W
D202	8-719-975-84	s	LED AY1101W
D203	8-719-901-75	s	DIODE 1SS88
D204	8-719-056-73	s	DIODE UDZ-TE-17-2.7B
D205	8-719-987-09	s	LED PG1102W
D206	8-719-987-09	s	LED PG1102W
D351	8-719-105-57	s	DIODE RD3.9M-B1
D521	8-719-800-76	s	DIODE 1SS226
D522	8-719-800-76	s	DIODE 1SS226
D523	8-719-800-76	s	DIODE 1SS226
D524	8-719-800-76	s	DIODE 1SS226
D525	8-719-800-76	s	DIODE 1SS226
D526	8-719-800-76	s	DIODE 1SS226
D551	8-719-800-76	s	DIODE 1SS226
D556	8-719-800-76	s	DIODE 1SS226
D561	8-719-800-76	s	DIODE 1SS226
D566	8-719-800-76	s	DIODE 1SS226
F101	△ 1-533-477-11	s	FUSE, CHIP 8A (6125)
FB601	1-500-425-11	s	BEAD, FERRITE
FB602	1-500-425-11	s	BEAD, FERRITE
FB603	1-500-425-11	s	BEAD, FERRITE
FB604	1-500-425-11	s	BEAD, FERRITE
IC101	8-759-983-69	s	IC LM358PS
IC102	8-759-983-69	s	IC LM358PS
IC103	8-759-937-36	s	IC TL1451ACNS
IC104	8-759-937-36	s	IC TL1451ACNS
IC201	8-759-181-33	s	IC EL2090CM
IC202	8-759-669-73	s	IC TL082CPWR
IC203	8-759-527-46	s	IC LM319M
IC204	8-759-528-99	s	IC TC74VHC221AFT(EL)
IC205	8-759-528-99	s	IC TC74VHC221AFT(EL)
IC206	8-759-523-05	s	IC TC74AC00FT(EL)
IC207	8-759-528-99	s	IC TC74VHC221AFT(EL)
IC208	8-759-523-40	s	IC TC74ACT74FT(EL)
IC209	8-759-523-40	s	IC TC74ACT74FT(EL)
IC210	8-759-523-40	s	IC TC74ACT74FT(EL)
IC211	8-759-523-40	s	IC TC74ACT74FT(EL)
IC212	8-759-523-39	s	IC TC74ACT32FT(EL)
IC213	8-759-669-73	s	IC TL082CPWR
IC214	8-759-245-00	s	IC TD62306F
IC215	8-759-367-25	s	IC MC10EL16DR2
IC216	8-759-367-26	s	IC MC10EL31DR2
IC217	8-759-367-26	s	IC MC10EL31DR2
IC218	8-759-367-26	s	IC MC10EL31DR2
IC219	8-759-465-49	s	IC MC10ELT21DR2
IC220	8-759-465-49	s	IC MC10ELT21DR2
IC221	8-759-434-84	s	IC 74ACT163SJX
IC222	8-759-434-84	s	IC 74ACT163SJX
IC223	8-759-434-84	s	IC 74ACT163SJX
IC224	8-759-541-05	o	IC WS57C291-V-LOOP-V1

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Ref. No. or Q'ty	Part No.	SP	Description
IC225	8-759-523-51	s	IC TC74ACT574FT(EL)
IC226	8-759-523-40	s	IC TC74ACT74FT(EL)
IC227	8-759-434-84	s	IC 74ACT163SJX
IC228	8-759-434-84	s	IC 74ACT163SJX
IC229	8-759-434-84	s	IC 74ACT163SJX
IC230	8-759-563-87	o	IC AM27C256-CKX-GEN-V2
IC231	8-759-523-51	s	IC TC74ACT574FT(EL)
IC232	8-759-523-51	s	IC TC74ACT574FT(EL)
IC233	8-759-527-47	s	IC MC10ELT20D
IC234	8-759-367-26	s	IC MC10EL31DR2
IC235	8-759-523-38	s	IC TC74ACT14FT(EL)
IC236	8-759-523-37	s	IC TC74ACT08FT(EL)
IC237	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC238	8-759-523-07	s	IC TC74AC04FT(EL)
IC239	8-759-367-24	s	IC MC10EL11DR2
IC240	8-759-367-24	s	IC MC10EL11DR2
IC241	8-759-240-87	s	IC TC74HCT157AF
IC301	8-759-530-15	s	IC TC74ACT245FT(EL)
IC302	8-759-590-17	s	IC IDT74FCT16244ATPV-TL
IC304	8-759-089-31	s	IC IDT74FCT16245ATPV-TL
IC305	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC312	8-759-590-17	s	IC IDT74FCT16244ATPV-TL
IC314	8-759-590-17	s	IC IDT74FCT16244ATPV-TL
IC351	8-759-590-17	s	IC IDT74FCT16244ATPV-TL
IC352	8-759-530-15	s	IC TC74ACT245FT(EL)
IC353	8-759-089-31	s	IC IDT74FCT16245ATPV-TL
IC354	8-759-089-31	s	IC IDT74FCT16245ATPV-TL
IC401	8-759-335-04	s	IC CY7C136-55JC
IC402	8-759-555-91	s	IC HD647180FS-SIO-V1.1
IC403	8-759-524-08	s	IC TC74VHC139FT(EL)
IC404	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC405	8-759-479-15	s	IC PC16552DV
IC406	8-759-479-15	s	IC PC16552DV
IC407	8-759-479-15	s	IC PC16552DV
IC408	8-759-479-32	s	IC SN75C1168NS (E05)
IC409	8-759-479-32	s	IC SN75C1168NS (E05)
IC410	8-759-479-32	s	IC SN75C1168NS (E05)
IC411	8-759-479-32	s	IC SN75C1168NS (E05)
IC412	8-759-521-15	s	IC MAX232CWE
IC521	8-752-392-03	s	IC CXD1095BR
IC522	8-759-524-49	s	IC TC74VHC540FT (EL)
IC523	8-759-245-00	s	IC TD62306F
IC524	8-759-941-17	s	IC SN74LS06NS
IC525	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC526	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC551	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC552	8-759-523-95	s	IC TC74VHC74FT(EL)
IC556	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC561	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC562	8-759-523-95	s	IC TC74VHC74FT(EL)
IC566	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC581	8-759-524-50	s	IC TC74VHC541FT(EL)
IC601	8-759-597-09	s	IC USS302TD-DB
IC602	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC651	8-759-175-56	s	IC CXD8804Q
IC652	8-759-497-04	s	IC LC361000AMLL-70-TLA
IC653	8-759-523-95	s	IC TC74VHC74FT(EL)
IC682	8-759-523-95	s	IC TC74VHC74FT(EL)
IC683	8-759-524-18	s	IC TC74VHC163FT(EL)

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Ref. No. or Q'ty	Part No.	SP	Description
IC684	8-759-491-46	s	IC TC74VHCT04AFT (EL)
IC1001	8-752-052-73	s	IC CXA1451M
IC1002	8-759-987-27	s	IC LM1881M
IC1003	8-759-269-92	s	IC SN74HCU04ANS (E20)
IC1008	8-759-925-74	s	IC SN74HC04ANS
IC1009	8-759-523-97	s	IC TC74VHC123AFT(EL)
IC1016	8-759-927-46	s	IC SN74HC00ANS
IC1017	8-759-670-07	o	IC EPM7032SGV1.0
IS224	1-526-816-21	s	SOCKET, IC 24P
IS230	1-526-659-00	o	SOCKET (28P), IC
IS1017	1-540-254-11	o	SOCKET, IC (PLCC)
JC301	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC302	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC303	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC304	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC305	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC306	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC307	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC308	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC309	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC318	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC319	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC320	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC321	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC322	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC323	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC324	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC325	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC326	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC327	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC328	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC329	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC521	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC522	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC523	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC524	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC525	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC526	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC551	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC552	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC553	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC580	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC581	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC651	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC681	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC682	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
JC683	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
L101	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L102	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L103	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L104	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L105	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L106	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L107	1-412-048-11	s	COIL, CHOKE 65UH
L108	1-412-048-11	s	COIL, CHOKE 65UH
L109	1-412-047-11	s	COIL, CHOKE 45UH
L110	1-412-047-11	s	COIL, CHOKE 45UH

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Ref. No. or Q'ty	Part No.	SP	Description
L111	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L201	1-421-370-00	s	COIL, CHOKE
L202	1-421-370-00	s	COIL, CHOKE
L203	1-411-843-11	s	COIL, CHOKE 10UH
L204	1-411-843-11	s	COIL, CHOKE 10UH
L205	1-411-843-11	s	COIL, CHOKE 10UH
L206	1-411-843-11	s	COIL, CHOKE 10UH
L207	1-411-843-11	s	COIL, CHOKE 10UH
L208	1-411-843-11	s	COIL, CHOKE 10UH
L209	1-411-843-11	s	COIL, CHOKE 10UH
Q101	8-729-117-32	s	TRANSISTOR 2SC4177
Q102	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q103	8-729-117-32	s	TRANSISTOR 2SC4177
Q104	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q105	8-729-117-32	s	TRANSISTOR 2SC4177
Q106	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q107	8-729-117-32	s	TRANSISTOR 2SC4177
Q108	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q109	8-729-117-32	s	TRANSISTOR 2SC4177
Q110	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q111	8-729-044-78	s	TRANSISTOR 2SJ327-Z-E1
Q112	8-729-044-78	s	TRANSISTOR 2SJ327-Z-E1
Q113	8-729-142-68	s	TRANSISTOR 2SJ143
Q114	8-729-142-68	s	TRANSISTOR 2SJ143
Q115	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q351	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q352	8-729-114-48	s	TRANSISTOR 2SB962-Z-P
R101	1-216-670-11	s	RESISTOR, CHIP 6.2K 1/10W(2012)
R102	1-216-677-11	s	RESISTOR, CHIP 12K 1/10W(2012)
R103	1-216-675-11	s	RESISTOR, CHIP 10K 1/10W(2012)
R104	1-216-667-11	s	RESISTOR, CHIP 4.7K 1/10W(2012)
R105	1-216-643-11	s	RESISTOR, CHIP 470 1/10W (2012)
R106	1-216-678-11	s	RESISTOR, CHIP 13K 1/10W(2012)
R107	1-216-627-11	s	RESISTOR, CHIP 100 1/10W (2012)
R108	1-216-675-11	s	RESISTOR, CHIP 10K 1/10W(2012)
R109	1-216-643-11	s	RESISTOR, CHIP 470 1/10W (2012)
R110	1-216-678-11	s	RESISTOR, CHIP 13K 1/10W(2012)
R111	1-216-659-11	s	RESISTOR, CHIP 2.2K 1/10W(2012)
R112	1-216-667-11	s	RESISTOR, CHIP 4.7K 1/10W(2012)
R113	1-216-682-11	s	RESISTOR, CHIP 20K 1/10W (2012)
R114	1-216-677-11	s	RESISTOR, CHIP 12K 1/10W(2012)
R115	1-216-679-11	s	RESISTOR, CHIP 15K 1/10W (2012)
R116	1-216-675-11	s	RESISTOR, CHIP 10K 1/10W(2012)
R117	1-216-681-11	s	RESISTOR, CHIP 18K 1/10W (2012)
R118	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R119	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R120	1-216-682-11	s	RESISTOR, CHIP 20K 1/10W (2012)
R121	1-216-698-11	s	RESISTOR, CHIP 91K 1/10W(2012)
R122	1-216-677-11	s	RESISTOR, CHIP 12K 1/10W(2012)
R123	1-216-679-11	s	RESISTOR, CHIP 15K 1/10W (2012)
R124	1-216-679-11	s	RESISTOR, CHIP 15K 1/10W (2012)
R125	1-216-669-11	s	RESISTOR, CHIP 5.6K 1/10W(2012)
R126	1-216-675-11	s	RESISTOR, CHIP 10K 1/10W(2012)
R127	1-216-659-11	s	RESISTOR, CHIP 2.2K 1/10W(2012)
R128	1-216-603-11	s	RESISTOR, CHIP 10 1/10W(2012)
R129	1-216-659-11	s	RESISTOR, CHIP 2.2K 1/10W(2012)
R130	1-216-603-11	s	RESISTOR, CHIP 10 1/10W(2012)
R131	1-216-682-11	s	RESISTOR, CHIP 20K 1/10W (2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R132	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R133	1-216-681-11	s	RESISTOR,CHIP 18K 1/10W (2012)
R134	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R135	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R136	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R137	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R138	1-216-669-11	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R139	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R140	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R141	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R142	1-216-681-11	s	RESISTOR,CHIP 18K 1/10W (2012)
R143	1-216-682-11	s	RESISTOR,CHIP 20K 1/10W (2012)
R144	1-216-687-11	s	RESISTOR,CHIP 33K 1/10W (2012)
R145	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R146	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R147	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R148	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R149	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R150	1-218-756-11	s	RESISTOR,CHIP 150K 1/10W(2012)
R151	1-218-756-11	s	RESISTOR,CHIP 150K 1/10W(2012)
R152	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R153	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R154	1-216-642-11	s	RESISTOR,CHIP 430 1/10W (2012)
R155	1-216-642-11	s	RESISTOR,CHIP 430 1/10W (2012)
R156	1-216-642-11	s	RESISTOR,CHIP 430 1/10W (2012)
R157	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R158	1-216-668-11	s	RESISTOR,CHIP 5.1K 1/10W(2012)
R159	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R160	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R161	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R201	1-216-655-11	s	RESISTOR,CHIP 1.5K 1/10W(2012)
R202	1-216-655-11	s	RESISTOR,CHIP 1.5K 1/10W(2012)
R203	1-216-640-11	s	RESISTOR,METAL CHIP 360 1/10W
R204	1-216-658-11	s	RESISTOR,CHIP 2.0K 1/10W(2012)
R205	1-216-638-11	s	RESISTOR,CHIP 300 1/10W (2012)
R206	1-216-658-11	s	RESISTOR,CHIP 2.0K 1/10W(2012)
R207	1-218-776-11	s	RESISTOR,CHIP 1M 1/10W (2012)
R208	1-216-663-11	s	RESISTOR,CHIP 3.3K 1/10W(2012)
R209	1-216-644-11	s	RESISTOR,CHIP 510 1/10W (2012)
R210	1-216-644-11	s	RESISTOR,CHIP 510 1/10W (2012)
R211	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R212	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R213	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R214	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R215	1-216-683-11	s	RESISTOR,CHIP 22K 1/10W (2012)
R216	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R217	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R218	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R219	1-216-686-11	s	RESISTOR, METAL FILM 30K 1/10W
R220	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R221	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R222	1-216-686-11	s	RESISTOR, METAL FILM 30K 1/10W
R223	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R224	1-218-768-11	s	RESISTOR,CHIP 470K 1/10W(2012)
R225	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R226	1-216-658-11	s	RESISTOR,CHIP 2.0K 1/10W(2012)
R227	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R228	1-216-639-11	s	RESISTOR,CHIP 330 1/10W (2012)
R229	1-216-639-11	s	RESISTOR,CHIP 330 1/10W (2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R230	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R231	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R232	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R233	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R234	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R235	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R236	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R237	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R238	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R239	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R240	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R241	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R242	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R243	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R244	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R245	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R246	1-216-693-11	s	RESISTOR,CHIP 56K 1/10W (2012)
R247	1-216-655-11	s	RESISTOR,CHIP 1.5K 1/10W(2012)
R248	1-216-655-11	s	RESISTOR,CHIP 1.5K 1/10W(2012)
R249	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R250	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R251	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R252	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R253	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R254	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R255	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R256	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R258	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R259	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R260	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R261	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R301	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R302	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R303	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R304	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R305	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R306	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R307	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R308	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R309	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R310	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R311	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R313	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R314	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R315	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R321	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R322	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R323	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R324	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R325	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R326	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R351	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R352	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R353	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R354	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R355	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R356	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R357	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R358	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)

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Ref. No. or Q'ty	Part No.	SP	Description
R445	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R446	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R447	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R448	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R449	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R450	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R521	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R522	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R523	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R524	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R526	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R527	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R528	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R529	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R530	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R551	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R552	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R553	1-218-769-11	s	RESISTOR,CHIP 510K 1/10W(2012)
R556	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R557	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R558	1-218-769-11	s	RESISTOR,CHIP 510K 1/10W(2012)
R561	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R562	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R563	1-218-769-11	s	RESISTOR,CHIP 510K 1/10W(2012)
R566	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R567	1-216-691-11	s	RESISTOR,CHIP 47K 1/10W(2012)
R568	1-218-769-11	s	RESISTOR,CHIP 510K 1/10W(2012)
R581	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R582	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R601	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R602	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R603	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R604	1-216-611-11	s	RESISTOR,CHIP 22 1/10W (2012)
R605	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R606	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R1001	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R1002	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R1003	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R1004	1-218-772-11	s	RESISTOR,CHIP 680K 1/10W(2012)
R1005	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R1006	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R1007	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1008	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1009	1-218-774-11	s	RESISTOR,CHIP 820K 1/10W(2012)
R1010	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1011	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1012	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1014	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R1015	1-218-179-11	s	RESISTOR,CHIP 10M 1/10W
R1016	1-216-699-11	s	RESISTOR,CHIP 100K 1/10W(2012)
R1017	1-218-179-11	s	RESISTOR,CHIP 10M 1/10W
R1018	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1019	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1020	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1021	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1022	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R1023	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R1024	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R1025	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)

(CKG-27 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R1026	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1027	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1028	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1029	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1031	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R1032	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
RB301	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB302	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB303	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB304	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB305	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB306	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB307	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB308	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB309	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB310	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB311	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB312	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB313	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB314	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB315	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB316	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB317	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB318	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB319	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB320	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB351	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB352	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB353	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB354	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB355	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB356	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB357	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB358	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB521	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB522	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB523	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB524	1-236-904-11	s	RESISTOR NETWORK 1K (1608)
RB525	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB651	1-239-306-11	s	RESISTOR ARRAY,CHIP 10K
RB652	1-239-308-11	s	RESISTOR ARRAY,CHIP 47K
RV201	1-237-036-11	s	RESISTOR, ADJ,CERMET 10K
RY201	1-515-716-11	s	RELAY
RY521	1-515-716-11	s	RELAY
RY522	1-515-716-11	s	RELAY
S651	1-692-271-31	s	SWITCH, SLIDE
THP101	1-771-075-21	s	SWITCH, POLY
X201	1-767-328-11	s	OSCILLATOR, CRYSTAL
X202	1-767-329-11	s	OSCILLATOR, CRYSTAL
X401	1-567-812-11	s	OSCILLATOR,CERAMIC
X402	1-767-060-11	s	OSCILLATOR, CRYSTAL
X601	1-767-972-11	s	OSCILLATOR, CRYSTAL
X651	1-760-528-11	s	OSCILLATOR, CRYSTAL
X1001	1-578-742-11	s	VIBRATOR, CRYSTAL
X1002	1-578-741-11	s	OSCILLATOR, CRYSTAL

CPU-317A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
(The CPU-317A mounted circuit board is included in the CKG-27B ASSY.)			
2pcs	3-624-100-02	o	LEVER,PWB
4pcs	7-685-104-21	s	SCREW,+PTP 2X6(EP-FE/ZN/CM2)
2pcs	7-626-300-54	o	SPRING PIN 3X6
1pc	1-767-156-11	s	OSCILLATOR,CRYSTAL(IN BATTERY)
C1	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C2	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C3	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C4	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C5	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C6	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C7	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C8	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C9	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C10	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C11	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C12	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C13	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C14	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C15	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C16	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C17	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C18	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C19	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C20	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C21	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C22	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C23	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C24	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C25	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C26	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C27	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C28	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C29	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C30	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C31	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C32	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C33	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C34	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C35	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C36	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C37	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C38	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C39	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C40	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C41	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C42	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C43	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C44	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C45	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C46	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C47	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C48	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C49	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C50	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V

[illegible]

Ref. No. or Q'ty	Part No.	SP	Description	
C113	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C114	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C115	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C116	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C117	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C118	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C119	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C120	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C121	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C122	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C123	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C124	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C125	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C127	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C128	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C129	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C130	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C131	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C132	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C133	1-163-037-11	s	CAPACITOR,CHIP CERAMIC	0.022MF
C134	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C135	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C136	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C137	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C138	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C139	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C140	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C141	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C142	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C143	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C144	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C145	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C146	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C147	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C148	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C149	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C150	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C151	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C152	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C153	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C154	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C155	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C156	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C157	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C158	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C159	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C160	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C161	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C162	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C163	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C164	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C165	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C166	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C167	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C168	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C169	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V	
C170	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V	
C171	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V	
C172	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V	

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Ref. No. or Q'ty	Part No.	SP	Description
C173	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C174	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C175	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C176	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C177	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C178	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C179	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C180	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C181	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C182	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C183	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C185	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C186	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C187	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C188	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C189	1-163-113-00	s	CAPACITOR,CHIP CERAMIC 68PF/50
C190	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C191	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C192	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C193	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C194	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C195	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C196	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C197	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C198	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C199	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C200	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C201	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C202	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C203	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C204	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C205	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C206	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C207	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C208	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C209	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C210	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C211	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C212	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C213	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C214	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C215	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C216	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C217	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C218	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C219	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C220	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C221	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C222	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C223	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C224	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C225	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C226	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C227	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C228	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C229	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C230	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C231	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C232	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V

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Ref. No. or Q'ty	Part No.	SP	Description
C233	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C234	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C235	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C236	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C237	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C238	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C239	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C240	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C241	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C242	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C243	1-163-251-11	s	CAPACITOR CERAMIC 100PF/50V
C244	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C245	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C246	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C247	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C248	1-113-925-11	s	CAPACITOR,CERAMIC 10000PF/250V
C249	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C251	1-163-113-00	s	CAPACITOR,CHIP CERAMIC 68PF/50
C252	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C253	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C256	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C257	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C258	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C259	1-104-608-11	s	CAPACITOR, ELECT 33MF/6.3V
C260	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C261	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C262	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C263	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C264	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C265	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C266	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
CN1	1-695-838-11	s	CONNECTOR, BOARD TO BOARD 128P
CN2	1-695-838-11	s	CONNECTOR, BOARD TO BOARD 128P
CN9	1-560-365-00	o	POST HEADER,CONNECTOR (3P)
COP1	1-785-586-11	s	PIN, CONNECTOR 10P
COP2	1-785-586-11	s	PIN, CONNECTOR 10P
COP3	1-566-388-11	s	PIN,CONNECTOR 8P
D1	8-719-987-09	s	LED PG1102W
D2	8-719-987-09	s	LED PG1102W
D3	8-719-987-09	s	LED PG1102W
D4	8-719-987-09	s	LED PG1102W
D5	8-719-987-09	s	LED PG1102W
D6	8-719-987-09	s	LED PG1102W
D7	8-719-987-09	s	LED PG1102W
D8	8-719-987-09	s	LED PG1102W
D9	8-719-987-09	s	LED PG1102W
D10	8-719-987-09	s	LED PG1102W
D11	8-719-987-09	s	LED PG1102W
D12	8-719-987-09	s	LED PG1102W
D13	8-719-951-19	s	DIODE VR1101W-TR
D14	8-719-975-84	s	LED AY1101W
D15	8-719-975-84	s	LED AY1101W
D16	8-719-975-84	s	LED AY1101W
D18	8-719-987-09	s	LED PG1102W
D19	8-719-987-09	s	LED PG1102W
D20	8-719-987-09	s	LED PG1102W
D21	8-719-987-09	s	LED PG1102W

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Ref. No. or Q'ty	Part No.	SP Description
D22	8-719-987-09	s LED PG1102W
D26	8-719-800-76	s DIODE 1SS226
D27	8-719-975-84	s LED AY1101W
D100	8-719-987-28	s LED ARRAY LA301MB
D101	8-719-987-28	s LED ARRAY LA301MB
FB1	1-500-425-11	s BEAD, FERRITE
FB2	1-500-425-11	s BEAD, FERRITE
FB3	1-500-425-11	s BEAD, FERRITE
FB4	1-500-425-11	s BEAD, FERRITE
IC1	8-759-568-38	s IC ND5000LGB-66
IC2	8-759-638-17	s IC IDT79RV4700-133DP
IC3	8-759-593-25	o IC EPM7128-DEVC264V2
IC5	8-759-568-46	s IC 93LC46BT/SN
IC6	8-759-389-47	s IC 74LCX16373MTDX
IC7	8-759-389-47	s IC 74LCX16373MTDX
IC8	8-759-389-46	s IC 74LCX16245MTDX
IC9	8-759-440-81	s IC IDT74FCT3807APY-TL
IC10	8-759-524-06	s IC TC74VHC132FT (EL)
IC11	8-759-389-46	s IC 74LCX16245MTDX
IC12	8-759-523-95	s IC TC74VHC74FT(EL)
IC13	8-759-389-45	s IC 74LCX16244MTDX
IC14	8-759-389-45	s IC 74LCX16244MTDX
IC15	8-759-491-45	s IC TC74VHC00AFT(EL)
IC16	8-759-535-26	s IC DEC21143-TD
IC17	8-759-642-41	s IC KM416V4104CS-L6
IC18	8-759-642-41	s IC KM416V4104CS-L6
IC19	8-759-642-41	s IC KM416V4104CS-L6
IC20	8-759-642-41	s IC KM416V4104CS-L6
IC21	8-759-642-41	s IC KM416V4104CS-L6
IC22	8-759-642-41	s IC KM416V4104CS-L6
IC23	8-759-642-41	s IC KM416V4104CS-L6
IC24	8-759-642-41	s IC KM416V4104CS-L6
IC25	8-759-440-81	s IC IDT74FCT3807APY-TL
IC26	8-759-568-47	s IC MX29F1610TC-12C3
IC27	8-759-568-47	s IC MX29F1610TC-12C3
IC28	8-759-360-99	s IC LT1134ACSW
IC29	8-759-523-84	s IC TC74VHC14FT (EL)
IC30	8-759-524-04	s IC TC74VHC125FT (EL)
IC32	8-759-389-45	s IC 74LCX16244MTDX
IC33	8-759-389-46	s IC 74LCX16245MTDX
IC34	8-759-389-45	s IC 74LCX16244MTDX
IC35	8-759-389-46	s IC 74LCX16245MTDX
IC39	8-759-389-33	s IC 74LCX244MTCX
IC40	8-759-437-39	s IC MB3771PF-ER
IC41	8-759-568-42	s IC M48T35Y-70MH1TR
IC42	8-759-437-39	s IC MB3771PF-ER
IC43	8-759-389-45	s IC 74LCX16244MTDX
IC44	8-759-524-04	s IC TC74VHC125FT (EL)
IC47	8-759-523-79	s IC TC74VHC02FT
IC49	8-759-523-97	s IC TC74VHC123AFT(EL)
IC50	8-759-654-89	o IC 7192SQ-CPU317IC50-V1.00
IC57	8-759-389-45	s IC 74LCX16244MTDX
IC58	8-759-389-45	s IC 74LCX16244MTDX
IC400	8-759-638-90	s IC ICS1892Y
IS37	1-540-151-21	s SOCKET, IC
IS38	1-540-151-21	s SOCKET, IC
R1	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R2	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP Description
R3	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R4	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R5	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R6	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R7	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R8	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R9	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R10	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R11	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R12	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R13	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R14	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R15	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R16	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R17	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R18	1-216-660-11	s RESISTOR,CHIP 2.4K 1/10W(2012)
R19	1-216-671-11	s RESISTOR,CHIP 6.8K 1/10W(2012)
R20	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R21	1-216-641-11	s RESISTOR,CHIP 390 1/10W(2012)
R22	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R23	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R24	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R25	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R26	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R27	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R28	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R29	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R30	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R31	1-216-624-11	s RESISTOR,CHIP 75 1/10W(2012)
R32	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R33	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R34	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R35	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R36	1-216-615-11	s RESISTOR,CHIP 33 1/10W(2012)
R37	1-216-624-11	s RESISTOR,CHIP 75 1/10W(2012)
R38	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R39	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R40	1-216-685-11	s RESISTOR,CHIP 27K 1/10W(2012)
R41	1-216-295-91	s RESISTOR,CHIP 0 (1/10W)
R42	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R43	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R44	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R45	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R46	1-216-660-11	s RESISTOR,CHIP 2.4K 1/10W(2012)
R47	1-216-619-11	s RESISTOR,CHIP 47 1/10W(2012)
R48	1-216-619-11	s RESISTOR,CHIP 47 1/10W(2012)
R49	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R50	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R51	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R52	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R53	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R54	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R55	1-218-758-11	s RESISTOR,CHIP 180K 1/10W(2012)
R56	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R57	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R58	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R59	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R60	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R61	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)

(CPU-317A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R143	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R144	1-216-295-91	s	RESISTOR, CHIP 0 (1/10W)
R150	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R160	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R161	1-216-647-11	s	RESISTOR,CHIP 680 1/10W (2012)
R163	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R164	1-216-651-11	s	RESISTOR,CHIP 1K 1/10W(2012)
R165	1-216-661-11	s	RESISTOR,CHIP 2.7K 1/10W(2012)
RB1	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB2	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB3	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB4	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB5	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB6	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB7	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB8	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB9	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB10	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB11	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB12	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB13	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB14	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB15	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB16	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB17	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB18	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB19	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB20	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB21	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB22	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB23	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB24	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB25	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB26	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB27	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB28	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB29	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB30	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB31	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB32	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB33	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB34	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB35	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB36	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB37	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB38	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB39	1-239-999-11	s	RESISTOR, CHIP NETWORK 1.0K
RB40	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB41	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB42	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB43	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB44	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB45	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB46	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB47	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB48	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB49	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB50	1-233-448-11	s	RESISTOR, CHIP NETWORK 22

(CPU-317A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB51	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB52	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB53	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB54	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB55	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB56	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB57	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB58	1-239-999-11	s	RESISTOR, CHIP NETWORK 1.0K
RB59	1-239-999-11	s	RESISTOR, CHIP NETWORK 1.0K
RB60	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB61	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB62	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB63	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB64	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB65	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB66	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB67	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB68	1-234-180-11	s	RESISTOR, CHIP NETWORK 150
RB69	1-234-180-11	s	RESISTOR, CHIP NETWORK 150
RB70	1-234-033-11	s	RESISTOR, CHIP NETWORK 330
RB71	1-234-033-11	s	RESISTOR, CHIP NETWORK 330
RB72	1-234-033-11	s	RESISTOR, CHIP NETWORK 330
RB73	1-234-033-11	s	RESISTOR, CHIP NETWORK 330
RB74	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB75	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB76	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB77	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB78	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB80	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB81	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB82	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB83	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB84	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB85	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB86	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB87	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB88	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB89	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB90	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB91	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB92	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB93	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB94	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB95	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB101	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB102	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB103	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB104	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB105	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB106	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB107	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB108	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB109	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB110	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB111	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB112	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB113	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB114	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB119	1-233-448-11	s	RESISTOR, CHIP NETWORK 22

(CPU-317A BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB120	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB121	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB122	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB123	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB124	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB125	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB126	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB127	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB128	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB129	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB130	1-233-234-11	s	RESISTOR, CHIP NETWORK 2.2K
RB131	1-234-179-11	s	RESISTOR, CHIP NETWORK 10
RB132	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB133	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
RB134	1-233-235-11	s	RESISTOR, CHIP NETWORK 10K
S1	1-571-967-11	s	SWITCH, DIP (PIANO TYPE)
S2	1-571-967-11	s	SWITCH, DIP (PIANO TYPE)
S3	1-572-438-11	s	SWITCH, TACTIL
S4	1-572-438-11	s	SWITCH, TACTIL
S5	1-762-994-11	s	SWITCH, ROTARY
T1	1-429-485-11	s	TRANSFORMER, LINE
X1	1-781-226-21	s	OSCILLATOR, CRYSTAL
X2	1-760-349-21	s	OSCILLATOR, CRYSTAL
X3	1-781-227-11	s	OSCILLATOR, CRYSTAL
X5	1-760-969-21	s	OSCILLATOR, CRYSTAL



MEM-94A BOARD

Ref. No. or Q'ty	Part No.	SP	Description
(The MEM-94A mounted circuit board is included in the CKG-27B ASSY.)			
C1	1-107-818-11	s	CAPACITOR,DOUBLE LAYERS 1F/5.5
C2	1-107-818-11	s	CAPACITOR,DOUBLE LAYERS 1F/5.5
C3	1-107-818-11	s	CAPACITOR,DOUBLE LAYERS 1F/5.5
C4	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C5	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C6	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C7	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C8	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C9	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C10	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C11	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C12	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C13	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C14	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C15	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C16	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C17	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C18	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C19	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C20	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C21	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C26	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C27	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C28	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C29	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C34	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C35	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
CN2	1-778-644-11	o	CONNECTOR, BOARD TO BOARD 40P
CN3	1-778-644-11	o	CONNECTOR, BOARD TO BOARD 40P
D1	8-719-800-76	s	DIODE 1SS226
D2	8-719-800-76	s	DIODE 1SS226
IC1	8-759-524-07	s	IC TC74VHC138FT(EL)
IC2	8-759-543-24	s	IC S-80845ALUP-EA9-T2
IC3	8-759-590-17	s	IC IDT74FCT16244ATPV-TL
IC4	8-759-590-17	s	IC IDT74FCT16244ATPV-TL
IC5	8-759-590-17	s	IC IDT74FCT16244ATPV-TL
IC6	8-759-665-26	s	IC KM684000CLT-7L
IC7	8-759-665-27	s	IC KM684000CLR-7L
IC8	8-759-665-26	s	IC KM684000CLT-7L
IC9	8-759-665-27	s	IC KM684000CLR-7L
IC14	8-759-665-26	s	IC KM684000CLT-7L
IC15	8-759-665-27	s	IC KM684000CLR-7L
IC16	8-759-665-26	s	IC KM684000CLT-7L
IC17	8-759-665-27	s	IC KM684000CLR-7L
R1	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)

CN-1915 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
lpc	A-8325-482-A	o	MOUNTED CIRCUIT BOARD, CN-1915
lpc	7-682-547-04	s	SCREW +B3X6
CN1	1-563-770-11	s	SOCKET,D-SUB CONNECTOR 9P
CN2	1-563-770-11	s	SOCKET,D-SUB CONNECTOR 9P
CN3	1-563-770-11	s	SOCKET,D-SUB CONNECTOR 9P
CN4	1-563-770-11	s	SOCKET,D-SUB CONNECTOR 9P
CN5	1-563-770-11	s	SOCKET,D-SUB CONNECTOR 9P
CN6	1-563-770-11	s	SOCKET,D-SUB CONNECTOR 9P
FL1	1-236-728-41	s	ENCAPSULATED COMPONENT
FL2	1-236-728-41	s	ENCAPSULATED COMPONENT
FL3	1-236-728-41	s	ENCAPSULATED COMPONENT
FL4	1-236-728-41	s	ENCAPSULATED COMPONENT
FL5	1-236-728-41	s	ENCAPSULATED COMPONENT
FL6	1-236-728-41	s	ENCAPSULATED COMPONENT
FL7	1-236-728-41	s	ENCAPSULATED COMPONENT
FL8	1-236-728-41	s	ENCAPSULATED COMPONENT
FL9	1-236-728-41	s	ENCAPSULATED COMPONENT
FL10	1-236-728-41	s	ENCAPSULATED COMPONENT
FL11	1-236-728-41	s	ENCAPSULATED COMPONENT
FL12	1-236-728-41	s	ENCAPSULATED COMPONENT
FL13	1-236-728-41	s	ENCAPSULATED COMPONENT
FL14	1-236-728-41	s	ENCAPSULATED COMPONENT
FL15	1-236-728-41	s	ENCAPSULATED COMPONENT
FL16	1-236-728-41	s	ENCAPSULATED COMPONENT
FL17	1-236-728-41	s	ENCAPSULATED COMPONENT
FL18	1-236-728-41	s	ENCAPSULATED COMPONENT
FL19	1-236-728-41	s	ENCAPSULATED COMPONENT
FL20	1-236-728-41	s	ENCAPSULATED COMPONENT
FL21	1-236-728-41	s	ENCAPSULATED COMPONENT
FL22	1-236-728-41	s	ENCAPSULATED COMPONENT
FL23	1-236-728-41	s	ENCAPSULATED COMPONENT
FL24	1-236-728-41	s	ENCAPSULATED COMPONENT

CN-1916 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8325-484-A	o MOUNTED CIRCUIT BOARD, CN-1916
6pcs	7-682-547-04	s SCREW +B3X6
4pcs	7-621-770-87	s SCREW +B2.6X5
CN1	1-793-324-11	o CONNECTOR, COAXIAL (BNC TYPE)
CN2	1-793-324-11	o CONNECTOR, COAXIAL (BNC TYPE)
CN3	1-566-318-11	s PLUG,D-SUB CONNECTOR 9P
CN4	1-563-771-11	s SOCKET,D-SUB CONNECTOR 15P
CN5	1-563-772-11	o SOCKET,D-SUB CONNECTOR 25P
CN6	1-785-300-11	s JACK, MODULAR 8P
FL1	1-236-728-41	s ENCAPSULATED COMPONENT
FL2	1-236-728-41	s ENCAPSULATED COMPONENT
FL3	1-236-728-41	s ENCAPSULATED COMPONENT
FL4	1-236-728-41	s ENCAPSULATED COMPONENT
FL5	1-236-728-41	s ENCAPSULATED COMPONENT
FL6	1-236-728-41	s ENCAPSULATED COMPONENT
FL7	1-236-728-41	s ENCAPSULATED COMPONENT
FL8	1-236-728-41	s ENCAPSULATED COMPONENT
FL9	1-236-728-41	s ENCAPSULATED COMPONENT
FL10	1-236-728-41	s ENCAPSULATED COMPONENT
FL11	1-236-728-41	s ENCAPSULATED COMPONENT
FL12	1-236-728-41	s ENCAPSULATED COMPONENT
FL13	1-236-728-41	s ENCAPSULATED COMPONENT
FL14	1-236-728-41	s ENCAPSULATED COMPONENT
FL15	1-236-728-41	s ENCAPSULATED COMPONENT
FL16	1-236-728-41	s ENCAPSULATED COMPONENT
FL17	1-236-728-41	s ENCAPSULATED COMPONENT
FL18	1-236-728-41	s ENCAPSULATED COMPONENT
FL19	1-236-728-41	s ENCAPSULATED COMPONENT
FL20	1-236-728-41	s ENCAPSULATED COMPONENT

DET-11A BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-633-840-13	o PRINTED WIRING BOARD, DET-11
1pc	2-143-746-02	o HOLDER,DME
1pc	7-685-533-14	s SCREW +BTP2.6X6(EP-FE/CU,NI,CR
C1	1-163-011-11	s CAPACITOR,CHIP CERAMIC 1500PF
C2	1-163-011-11	s CAPACITOR,CHIP CERAMIC 1500PF
C3	1-124-589-11	s CAPACITOR,ELECT 47MF/16V
C4	1-163-011-11	s CAPACITOR,CHIP CERAMIC 1500PF
CN1	1-506-487-11	s PIN,CONNECTOR 8P
D1	8-719-200-02	s DIODE 10E2 (RECTI)
DME1	8-745-001-00	s DME DM-211A
IC1	8-759-983-74	s IC LM324NS
PC1	8-719-800-81	s PHOTO INTERRUPTER TLP801A
R1	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R2	1-216-057-00	s RESISTOR CHIP 2.2K 1/10W(2012)
R3	1-216-057-00	s RESISTOR CHIP 2.2K 1/10W(2012)
R4	1-247-847-11	s RESISTOR, CARBON (SMALL) 4.7K
R5	1-216-097-91	s RESISTOR,CHIP 100K 1/10W(2012)
R6	1-216-057-00	s RESISTOR CHIP 2.2K 1/10W(2012)
R7	1-216-057-00	s RESISTOR CHIP 2.2K 1/10W(2012)
R8	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R9	1-216-105-91	s RESISTOR,CHIP 220K 1/10W(2125)
R10	1-216-057-00	s RESISTOR CHIP 2.2K 1/10W(2012)
R11	1-216-057-00	s RESISTOR CHIP 2.2K 1/10W(2012)
R12	1-247-847-11	s RESISTOR, CARBON (SMALL) 4.7K
R13	1-216-097-91	s RESISTOR,CHIP 100K 1/10W(2012)
R14	1-216-057-00	s RESISTOR CHIP 2.2K 1/10W(2012)
R15	1-216-057-00	s RESISTOR CHIP 2.2K 1/10W(2012)
R16	1-216-073-00	s RESISTOR,CHIP 10K 1/10W(2012)
R17	1-216-065-91	s RESISTOR,CHIP 4.7K 1/10W(2012)
R18	1-216-033-00	s RESISTOR,CHIP 220 1/10W(2012)
R19	1-249-406-11	s RES,CARBON 120 1/4W SMALL
RV1	1-228-469-00	s RESISTOR,ADJ,CERMET 200
RV2	1-228-469-00	s RESISTOR,ADJ,CERMET 200

DP-309 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8325-477-A	o	MOUNTED CIRCUIT BOARD, DP-309
3pcs	4-920-509-01	o	CAP,KEY
3pcs	4-920-509-11	o	CAP, KEY
C101	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C103	1-125-990-11	s	CAPACITOR,TANTALUM 47MF/20V
C104	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C105	1-104-478-11	s	CAPACITOR TANTALUM 10MF/35V
C106	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C201	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C202	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C203	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C204	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C301	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C302	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C303	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C304	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C401	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C402	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C403	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C404	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
CN101	1-562-686-11	o	CONNECTOR,F.P.C (26P)
D101	8-719-801-78	s	DIODE 1SS184
D102	8-719-801-78	s	DIODE 1SS184
D103	8-719-801-78	s	DIODE 1SS184
D104	8-719-950-78	s	LED LD-001DU
D105	8-719-950-78	s	LED LD-001DU
D107	8-719-950-78	s	LED LD-001DU
D108	8-719-950-78	s	LED LD-001DU
D109	8-719-979-87	s	LED LD-701MG
D110	8-719-950-78	s	LED LD-001DU
D111	8-719-950-78	s	LED LD-001DU
D113	8-719-950-78	s	LED LD-001DU
D114	8-719-950-78	s	LED LD-001DU
D115	8-719-979-87	s	LED LD-701MG
D116	8-719-950-78	s	LED LD-001DU
D117	8-719-950-78	s	LED LD-001DU
D119	8-719-979-87	s	LED LD-701MG
IC101	8-759-926-77	s	IC SN74HC541ANS
IC102	8-759-587-81	s	IC NJU3716M-TE2
IC201	8-759-587-81	s	IC NJU3716M-TE2
IC202	8-759-587-81	s	IC NJU3716M-TE2
IC203	8-759-587-81	s	IC NJU3716M-TE2
IC204	8-759-587-81	s	IC NJU3716M-TE2
IC301	8-759-587-81	s	IC NJU3716M-TE2
IC302	8-759-587-81	s	IC NJU3716M-TE2
IC303	8-759-587-81	s	IC NJU3716M-TE2
IC304	8-759-587-81	s	IC NJU3716M-TE2
IC401	8-759-587-81	s	IC NJU3716M-TE2
IC402	8-759-587-81	s	IC NJU3716M-TE2
IC403	8-759-587-81	s	IC NJU3716M-TE2
IC404	8-759-587-81	s	IC NJU3716M-TE2
ND201	8-719-079-88	s	DIODE LA-401VN
ND202	8-719-079-88	s	DIODE LA-401VN
ND203	8-719-079-88	s	DIODE LA-401VN
ND204	8-719-079-88	s	DIODE LA-401VN
ND205	8-719-079-88	s	DIODE LA-401VN

(DP-309 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
ND206	8-719-079-88	s	DIODE LA-401VN
ND207	8-719-079-88	s	DIODE LA-401VN
ND208	8-719-079-88	s	DIODE LA-401VN
ND301	8-719-079-88	s	DIODE LA-401VN
ND302	8-719-079-88	s	DIODE LA-401VN
ND303	8-719-079-88	s	DIODE LA-401VN
ND304	8-719-079-88	s	DIODE LA-401VN
ND305	8-719-079-88	s	DIODE LA-401VN
ND306	8-719-079-88	s	DIODE LA-401VN
ND307	8-719-079-88	s	DIODE LA-401VN
ND308	8-719-079-88	s	DIODE LA-401VN
ND401	8-719-079-88	s	DIODE LA-401VN
ND402	8-719-079-88	s	DIODE LA-401VN
ND403	8-719-079-88	s	DIODE LA-401VN
ND404	8-719-079-88	s	DIODE LA-401VN
ND405	8-719-079-88	s	DIODE LA-401VN
ND406	8-719-079-88	s	DIODE LA-401VN
ND407	8-719-079-88	s	DIODE LA-401VN
ND408	8-719-079-88	s	DIODE LA-401VN
Q101	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q102	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q104	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q105	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q106	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q107	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q108	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q110	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q111	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q112	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q113	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q114	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q116	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
R101	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R102	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R103	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R104	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R107	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R108	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R109	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R110	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R111	1-216-629-11	s	RESISTOR,CHIP 120 1/10W (2012)
R114	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R115	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R116	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R117	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R120	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R121	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R122	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R123	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R124	1-216-629-11	s	RESISTOR,CHIP 120 1/10W (2012)
R125	1-216-629-11	s	RESISTOR,CHIP 120 1/10W (2012)
R126	1-216-629-11	s	RESISTOR,CHIP 120 1/10W (2012)
R127	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R128	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R129	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R130	1-216-652-11	s	RESISTOR,CHIP 1.1K 1/10W(2012)
R133	1-216-629-11	s	RESISTOR,CHIP 120 1/10W (2012)
R134	1-216-629-11	s	RESISTOR,CHIP 120 1/10W (2012)

(DP-309 BOARD)

[illegible]

(DP-309 BOARD)

[illegible]

Ref. No. or Q'ty	Part No.	SP	Description				
R647	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R648	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R649	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R650	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R651	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R652	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R653	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R654	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R655	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R656	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R657	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R658	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R659	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R660	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R661	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R662	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R663	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
R664	1-216-636-11	s	RESISTOR	CHIP	240	1/10W	(2012)
S101	1-554-761-12	s	SWITCH,	KEY BOARD			
S102	1-554-761-12	s	SWITCH,	KEY BOARD			
S103	1-554-761-12	s	SWITCH,	KEY BOARD			
S104	1-554-761-12	s	SWITCH,	KEY BOARD			
S105	1-554-761-12	s	SWITCH,	KEY BOARD			
S106	1-554-761-12	s	SWITCH,	KEY BOARD			

DP-314 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8325-471-A	o MOUNTED CIRCUIT BOARD, DP-314
C101	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C102	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C103	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C104	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C105	1-113-985-11	s CAPACITOR, TANTALUM 10MF/20V
C106	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C107	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
CN101	1-779-754-11	o CONNECTOR, BOARD TO BOARD 40P
D101	8-719-979-87	s LED LD-701MG
D102	8-719-979-87	s LED LD-701MG
D103	8-719-979-87	s LED LD-701MG
D104	8-719-979-87	s LED LD-701MG
D105	8-719-979-87	s LED LD-701MG
D106	8-719-979-87	s LED LD-701MG
D107	8-719-979-87	s LED LD-701MG
D108	8-719-979-87	s LED LD-701MG
D109	8-719-979-87	s LED LD-701MG
D110	8-719-979-87	s LED LD-701MG
D111	8-719-979-87	s LED LD-701MG
D112	8-719-979-87	s LED LD-701MG
D113	8-719-979-87	s LED LD-701MG
D114	8-719-979-87	s LED LD-701MG
IC101	8-759-242-74	s IC TC7W04F
ND101	8-719-062-50	s LED SLG2016
ND102	8-719-062-50	s LED SLG2016
ND103	8-719-062-50	s LED SLG2016
ND104	8-719-062-50	s LED SLG2016
Q101	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q102	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q103	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q104	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q105	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q106	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q107	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q108	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q109	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q110	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q111	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q112	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q113	8-729-029-06	s TRANSISTOR DTC124EUA-T106
Q114	8-729-029-06	s TRANSISTOR DTC124EUA-T106
R101	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R102	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R103	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R104	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R105	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R106	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R107	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R108	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R109	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R110	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R111	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R112	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R113	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R114	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)

(DP-314 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R115	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R116	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R117	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R118	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R119	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R120	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R121	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R122	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R123	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R124	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R125	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R126	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R127	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R128	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R129	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R130	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R131	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R132	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R133	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R134	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R135	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R136	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R137	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R138	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R139	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R140	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R141	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)
R142	1-216-629-11	s RESISTOR,CHIP 120 1/10W (2012)

HN-276 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-676-352-11	o PRINTED WIRING BOARD, HN-276
CN1	1-764-886-12	o PIN, CONNECTOR (PC BOARD) 8P
CN2	1-560-357-11	o CONNECTOR POST HEADER,ILG (3P)

IF-766 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8325-475-A	o	MOUNTED CIRCUIT BOARD, IF-766
2pcs	7-682-547-04	s	SCREW +B3X6
2pcs	7-621-772-58	s	SCREW +B2X10 (EP-FE/CU,NI,CR)
2pcs	7-622-205-05	s	NUT M2 TYPE2
BZ301	1-529-070-11	s	BUZZER,PIEZO
C101	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C102	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C103	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C104	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C105	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C106	1-126-397-11	s	CAPACITOR ELECT 33MF/25V(CHIP)
C107	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C108	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C109	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C110	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C111	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C112	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C113	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C114	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C115	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C116	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C117	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C118	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C119	1-163-235-11	s	CAPACITOR,CHIP CERAMIC22PF/50V
C201	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C202	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C203	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C204	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C205	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C206	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C207	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C208	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C209	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C210	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C211	1-126-397-11	s	CAPACITOR ELECT 33MF/25V(CHIP)
C212	1-126-397-11	s	CAPACITOR ELECT 33MF/25V(CHIP)
C213	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C214	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C215	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C216	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C302	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C303	1-126-397-11	s	CAPACITOR ELECT 33MF/25V(CHIP)
C305	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C306	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C307	1-126-397-11	s	CAPACITOR ELECT 33MF/25V(CHIP)
C308	1-126-397-11	s	CAPACITOR ELECT 33MF/25V(CHIP)
C309	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C310	1-126-397-11	s	CAPACITOR ELECT 33MF/25V(CHIP)
C311	1-126-397-11	s	CAPACITOR ELECT 33MF/25V(CHIP)
C312	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C313	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C314	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C315	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C316	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C317	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C318	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C319	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C320	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V

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Ref. No. or Q'ty	Part No.	SP	Description
C321	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C322	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C323	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C324	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
CN101	1-506-469-11	s	PIN,CONNECTOR 4P
CN201	1-565-082-11	o	HEADER,CONNECTOR 60P
CN301	1-563-772-11	o	SOCKET,D-SUB CONNECTOR 25P
CN303	1-564-002-11	s	PIN, CONNECTOR 3P
D101	8-719-104-34	s	DIODE 1S2836
D102	8-719-104-34	s	DIODE 1S2836
D301	8-719-075-14	s	DIODE DF30PC3M-4062
D302	8-719-075-14	s	DIODE DF30PC3M-4062
D303	8-719-104-34	s	DIODE 1S2836
D304	8-719-987-43	s	LED CL-150PG-CD
D305	8-719-987-43	s	LED CL-150PG-CD
D306	8-719-987-43	s	LED CL-150PG-CD
DD301	1-467-544-11	s	CONVERTER, DC-DC
F301	△ 1-533-829-21	s	FUSE, CHIP 2.5A (6125)
F302	△ 1-533-271-21	s	FUSE, CHIP
FL201	1-233-674-21	s	FILTER, EMI
FL202	1-233-674-21	s	FILTER, EMI
FL203	1-233-674-21	s	FILTER, EMI
FL204	1-233-674-21	s	FILTER, EMI
FL301	1-239-896-12	s	FILTER, EMI (SMD)
FL302	1-239-896-12	s	FILTER, EMI (SMD)
FL303	1-239-896-12	s	FILTER, EMI (SMD)
FL304	1-239-896-12	s	FILTER, EMI (SMD)
FL305	1-239-896-12	s	FILTER, EMI (SMD)
FL306	1-239-896-12	s	FILTER, EMI (SMD)
FL307	1-239-896-12	s	FILTER, EMI (SMD)
FL308	1-239-896-12	s	FILTER, EMI (SMD)
IC101	8-759-458-38	s	IC KL5C80A20CFP
IC102	8-759-671-17	o	IC 27C1000-PANEL-V100
IC104	8-759-497-04	s	IC LC361000AMLL-70-TLA
IC105	8-759-502-54	s	IC PST529FMT
IC106	8-759-502-54	s	IC PST529FMT
IC201	8-759-926-76	s	IC SN74HC540ANS
IC202	8-759-927-46	s	IC SN74HC00ANS
IC203	8-759-321-59	s	IC HD74HC138FP(EL)
IC204	8-759-321-59	s	IC HD74HC138FP(EL)
IC205	8-759-321-59	s	IC HD74HC138FP(EL)
IC206	8-759-926-77	s	IC SN74HC541ANS
IC207	8-759-926-77	s	IC SN74HC541ANS
IC208	8-759-985-55	s	IC 74AC245SJ
IC209	8-759-985-78	s	IC 74AC541SJ
IC210	8-759-925-90	s	IC SN74HC74ANS
IC301	8-759-177-57	s	IC AM26C31CNS
IC302	8-759-177-56	s	IC AM26C32CNS
IC303	8-759-925-76	s	IC SN74HC08ANS
IC304	8-759-252-59	s	IC MAX202CSE
IC305	8-749-923-19	s	IC SI-3122V-S
IC306	8-759-321-59	s	IC HD74HC138FP(EL)
IS102	1-540-151-21	s	SOCKET, IC
Q1	8-729-029-06	s	TRANSISTOR DTC124EUA-T106
Q201	8-729-140-96	s	TRANSISTOR 2SD774-34

(IF-766 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q202	8-729-140-96	s TRANSISTOR 2SD774-34
R101	1-216-643-11	s RESISTOR,CHIP 470 1/10W (2012)
R102	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R103	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R104	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R105	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R106	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R107	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R108	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R109	1-216-655-11	s RESISTOR,CHIP 1.5K 1/10W(2012)
R110	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R111	1-218-776-11	s RESISTOR CHIP 1M 1/10W (2012)
R112	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R113	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R114	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R115	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R116	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R117	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R118	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R119	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R201	1-216-655-11	s RESISTOR,CHIP 1.5K 1/10W(2012)
R202	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R203	1-216-655-11	s RESISTOR,CHIP 1.5K 1/10W(2012)
R204	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R301	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R302	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R303	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R304	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R305	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R306	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R307	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R308	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R309	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R310	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R311	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R312	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R313	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R314	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R315	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R316	1-216-611-11	s RESISTOR,CHIP 22 1/10W (2012)
R317	1-216-641-11	s RESISTOR,CHIP 390 1/10W(2012)
R318	1-216-641-11	s RESISTOR,CHIP 390 1/10W(2012)
R319	1-216-641-11	s RESISTOR,CHIP 390 1/10W(2012)
R320	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R321	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R322	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R323	1-216-683-11	s RESISTOR,CHIP 22K 1/10W (2012)
RB101	1-239-306-11	s RESISTOR ARRAY,CHIP 10K
RB102	1-239-306-11	s RESISTOR ARRAY,CHIP 10K
RB103	1-239-306-11	s RESISTOR ARRAY,CHIP 10K
RB104	1-239-306-11	s RESISTOR ARRAY,CHIP 10K
RB105	1-239-306-11	s RESISTOR ARRAY,CHIP 10K
RB201	1-239-305-11	s RESISTOR ARRAY,CHIP 4.7K
RB202	1-239-305-11	s RESISTOR ARRAY,CHIP 4.7K
S101	1-572-473-11	s SWITCH, TACTIL
S102	1-572-473-11	s SWITCH, TACTIL

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Ref. No. or Q'ty	Part No.	SP Description
X101	1-760-273-11	s VIBRATOR, CRYSTAL

KEY ASSY

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-476-026-11	o	KEY ASSY
C102	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C103	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C104	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C201	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C202	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C203	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C301	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C302	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C303	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C304	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C305	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C401	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C402	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C403	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C404	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C406	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C407	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
C408	1-163-038-91	s	CAPACITOR, CERAMIC 0.1MF/25V
CN102	1-562-686-11	o	CONNECTOR, F.P.C (26P)
CN103	1-779-754-11	o	CONNECTOR, BOARD TO BOARD 40P
CN201	1-564-018-11	o	PIN, CONNECTOR 8P
CN202	1-564-018-11	o	PIN, CONNECTOR 8P
CN203	1-564-003-11	s	PIN, CONNECTOR 4P
CN204	1-564-003-11	s	PIN, CONNECTOR 4P
CN205	1-564-003-11	s	PIN, CONNECTOR 4P
D301	8-719-058-81	s	DIODE SLR-56MCT32
D302	8-719-058-81	s	DIODE SLR-56MCT32
D303	8-719-058-81	s	DIODE SLR-56MCT32
D304	8-719-058-81	s	DIODE SLR-56MCT32
D305	8-719-058-81	s	DIODE SLR-56MCT32
D306	8-719-058-81	s	DIODE SLR-56MCT32
D307	8-719-058-83	s	LED SLR-56VC3F
D308	8-719-058-83	s	LED SLR-56VC3F
D309	8-719-058-83	s	LED SLR-56VC3F
D310	8-719-058-83	s	LED SLR-56VC3F
D311	8-719-058-84	s	LED SLR-56DC3F
D312	8-719-058-84	s	LED SLR-56DC3F
D313	8-719-058-84	s	LED SLR-56DC3F
D314	8-719-058-84	s	LED SLR-56DC3F
D315	8-719-058-83	s	LED SLR-56VC3F
D316	8-719-058-81	s	DIODE SLR-56MCT32
D317	8-719-069-98	s	DIODE SLR-56YCT32
D318	8-719-158-81	s	DIODE SLR-56MCT32
D319	8-719-058-83	s	LED SLR-56VC3F
D320	8-719-058-81	s	DIODE SLR-56MCT32
D321	8-719-058-81	s	DIODE SLR-56MCT32
D322	8-719-058-83	s	LED SLR-56VC3F
D323	8-719-058-81	s	DIODE SLR-56MCT32
D501	8-719-024-81	s	DIODE 1SS300-TE85L
D502	8-719-024-81	s	DIODE 1SS300-TE85L
D503	8-719-024-81	s	DIODE 1SS300-TE85L
D504	8-719-024-81	s	DIODE 1SS300-TE85L
D505	8-719-024-81	s	DIODE 1SS300-TE85L
D506	8-719-024-81	s	DIODE 1SS300-TE85L
D507	8-719-024-81	s	DIODE 1SS300-TE85L
D508	8-719-024-81	s	DIODE 1SS300-TE85L

(KEY ASSY)

Ref. No. or Q'ty	Part No.	SP	Description
D509	8-719-024-81	s	DIODE 1SS300-TE85L
D510	8-719-024-81	s	DIODE 1SS300-TE85L
D511	8-719-024-81	s	DIODE 1SS300-TE85L
D512	8-719-024-81	s	DIODE 1SS300-TE85L
D513	8-719-024-81	s	DIODE 1SS300-TE85L
D514	8-719-024-81	s	DIODE 1SS300-TE85L
D515	8-719-024-81	s	DIODE 1SS300-TE85L
D516	8-719-024-81	s	DIODE 1SS300-TE85L
D517	8-719-024-81	s	DIODE 1SS300-TE85L
D518	8-719-024-81	s	DIODE 1SS300-TE85L
D519	8-719-024-81	s	DIODE 1SS300-TE85L
D520	8-719-024-81	s	DIODE 1SS300-TE85L
D521	8-719-024-81	s	DIODE 1SS300-TE85L
D522	8-719-024-81	s	DIODE 1SS300-TE85L
D523	8-719-024-81	s	DIODE 1SS300-TE85L
D524	8-719-024-81	s	DIODE 1SS300-TE85L
D601	8-719-024-81	s	DIODE 1SS300-TE85L
D602	8-719-024-81	s	DIODE 1SS300-TE85L
D603	8-719-024-81	s	DIODE 1SS300-TE85L
D604	8-719-024-81	s	DIODE 1SS300-TE85L
D604	8-719-024-81	s	DIODE 1SS300-TE85L
D605	8-719-024-81	s	DIODE 1SS300-TE85L
D606	8-719-024-81	s	DIODE 1SS300-TE85L
D607	8-719-024-81	s	DIODE 1SS300-TE85L
D608	8-719-024-81	s	DIODE 1SS300-TE85L
D609	8-719-024-81	s	DIODE 1SS300-TE85L
D610	8-719-024-81	s	DIODE 1SS300-TE85L
D611	8-719-024-81	s	DIODE 1SS300-TE85L
D612	8-719-024-81	s	DIODE 1SS300-TE85L
D613	8-719-024-81	s	DIODE 1SS300-TE85L
D614	8-719-024-81	s	DIODE 1SS300-TE85L
D615	8-719-024-81	s	DIODE 1SS300-TE85L
D616	8-719-024-81	s	DIODE 1SS300-TE85L
D617	8-719-024-81	s	DIODE 1SS300-TE85L
D618	8-719-024-81	s	DIODE 1SS300-TE85L
D619	8-719-024-81	s	DIODE 1SS300-TE85L
D620	8-719-024-81	s	DIODE 1SS300-TE85L
D621	8-719-024-81	s	DIODE 1SS300-TE85L
D622	8-719-024-81	s	DIODE 1SS300-TE85L
D623	8-719-024-81	s	DIODE 1SS300-TE85L
D624	8-719-024-81	s	DIODE 1SS300-TE85L
IC101	8-759-926-77	s	IC SN74HC541ANS
IC102	8-759-926-82	s	IC SN75HC574ANS
IC201	8-759-287-56	s	IC UPD4701AGT
IC202	8-759-287-56	s	IC UPD4701AGT
IC203	8-759-287-56	s	IC UPD4701AGT
IC301	8-759-925-90	s	IC SN74HC74ANS
IC302	8-759-926-24	s	IC SN74HC164ANS
IC303	8-759-926-82	s	IC SN75HC574ANS
IC304	8-759-926-82	s	IC SN75HC574ANS
IC305	8-759-926-76	s	IC SN74HC540ANS
IC401	8-759-342-19	s	IC NJU3716M (T2)
IC402	8-759-342-19	s	IC NJU3716M (T2)
IC403	8-759-342-19	s	IC NJU3716M (T2)
IC404	8-759-342-19	s	IC NJU3716M (T2)
IC406	8-759-342-19	s	IC NJU3716M (T2)
IC407	8-759-342-19	s	IC NJU3716M (T2)
IC408	8-759-342-19	s	IC NJU3716M (T2)

(KEY ASSY)

[illegible]

(KEY ASSY)

Ref. No. or Q'ty	Part No.	SP	Description
R490	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R491	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R492	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R493	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R494	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R495	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R496	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R497	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R498	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R499	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R4001	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R4002	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R4003	1-216-031-91	s	RESISTOR CHIP 180 1/10W(2012)
R4010	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4011	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4012	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4013	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4014	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4015	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4016	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4017	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4018	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4019	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4020	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4021	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4022	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
R4023	1-216-031-91	s	RESISTOR CHIP 120 1/10W(2012)
S507	1-762-214-11	s	SWITCH, LTM PUSH (1 KEY)
S508	1-762-214-11	s	SWITCH, LTM PUSH (1 KEY)
S516	1-762-214-11	s	SWITCH, LTM PUSH (1 KEY)
S539	1-762-214-11	s	SWITCH, LTM PUSH (1 KEY)
S540	1-762-214-11	s	SWITCH, LTM PUSH (1 KEY)
S547	1-762-214-11	s	SWITCH, LTM PUSH (1 KEY)
S258	1-762-214-11	s	SWITCH, LTM PUSH (1 KEY)
S632	1-762-214-11	s	SWITCH, LTM PUSH (1 KEY)

MB-873 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
CN7	1-778-022-11	o	CONNECTOR, BOARD TO BOARD 24P
CN8	△ 1-691-960-11	o	PIN,CONNECTOR (PC BOARD) 3P
CN9	1-560-357-11	o	CONNECTOR POST HEADER,ILG (3P)
CN10	1-766-538-11	o	CONNECTOR, BOARD TO BOARD
CN11	1-778-022-11	o	CONNECTOR, BOARD TO BOARD 24P

FRAME

Ref. No. or Q'ty	Part No.	SP	Description
3pcs	1-466-955-11	s	ENCODER, ROTARY
1pc	△ 1-468-480-11	s	REGULATOR, SWITCHING
AC101	△ 1-251-384-11	s	INLET (WITH NOISE FILTER)
HN101	-----		HARNESS (AC IN) (To AC101)
2pcs	△ 1-565-787-21	o	CONTACT, RECEPTACLE 1P
2pcs	△ 1-565-788-11	o	HOUSING,CONNECTOR (To CN8/MB-873 board)
2pcs	△ 1-562-210-11	s	CONTACT,CONNECTOR
1pc	△ 1-562-211-11	o	HOUSING, CONNECTOR 3P
HN102	△ 1-955-367-12	o	HARNESS (FGL7) (AC101 to GROUND)
HN201	1-792-670-11	o	CABLE ASSY, COAXIAL (CN103/MB-873 board to EXTERNAL CONNECTOR)
HN202	1-792-670-11	o	CABLE ASSY, COAXIAL (CN103/MB-873 board to EXTERNAL CONNECTOR)
HN203	1-792-670-11	o	CABLE ASSY, COAXIAL (CN103, CN106/MB-873 board to EXTERNAL CONNECTOR)
HN204	1-792-670-11	o	CABLE ASSY, COAXIAL (CN106/MB-873 board to EXTERNAL CONNECTOR)
HN301	-----		HARNESS (DIAL) (To CN201/KEY ASSY)
8pcs	1-569-193-11	o	TERMINAL, SOLDERLESS
1pc	1-569-201-11	o	HOUSING, CONNECTOR 8P (To CN1/DET-11A board)
HN302	-----		HARNESS (DIAL) (To CN202/KEY ASSY)
8pcs	1-569-193-11	o	TERMINAL, SOLDERLESS
1pc	1-569-201-11	o	HOUSING, CONNECTOR 8P (To CN1/DET-11A board)
HN303	1-960-476-11	o	HARNESS (IFTOKY) (To CN201/IF-766 board)
1pc	1-564-082-00	o	CONNECTOR(DIP TYPE)60P (To CN101/KEY ASSY)
FAN101	1-698-890-13	s	DC FAN (92 SQUARE)
FAN201	1-698-890-13	s	DC FAN (92 SQUARE)

3-3-2. BKE-701

IO-193 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8325-930-A	o MOUNTED CIRCUIT BOARD, IO-193
2pcs	7-682-548-04	s SCREW +B3X8
6pcs	3-683-631-01	o CLAMP
4pcs	1-763-127-11	s MOTOR, DC FAN
16pcs	7-682-551-04	s SCREW +B3X14(EP-FE/CU,NI,CR)
2pcs	3-624-100-02	o LEVER, PWB
7pcs	3-703-249-01	s SCREW, +PTTWH3X6
32pcs	7-682-902-21	s SCREW +PWH 2.6X6(EP-FE/ZN/CM2)
2pcs	3-192-294-01	o SHEET (SDI), RADIATION
21pcs	7-621-759-40	s SCREW +PSW 2.6X6(EP-FE/ZNBK/CM
C201	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C202	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C203	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C205	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C206	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C207	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C208	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C209	1-163-263-11	s CAPACITOR,CERAMIC 330PF/50V
C210	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C211	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C212	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C213	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C215	1-163-135-00	s CAPACITOR,CHIP CERAMIC 560PF
C216	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C217	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C218	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C219	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C220	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C221	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C222	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C223	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C224	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C225	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C226	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C227	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C228	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C229	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C230	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C231	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C232	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C233	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C234	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C235	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C236	1-163-135-00	s CAPACITOR,CHIP CERAMIC 560PF
C237	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C238	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C239	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C240	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C241	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C242	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C243	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C244	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C246	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C247	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C248	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C249	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C250	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF

(IO-193 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C251	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C252	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C253	1-163-135-00	s CAPACITOR,CHIP CERAMIC 560PF
C254	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C255	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C256	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C257	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C258	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C259	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C260	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C261	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C262	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C263	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C277	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C278	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C280	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C281	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C283	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C284	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C285	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C286	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C287	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C288	1-163-263-11	s CAPACITOR CERAMIC 330PF/50V
C289	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C290	1-163-135-00	s CAPACITOR,CHIP CERAMIC 560PF
C291	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C292	1-126-394-11	s CAPACITOR,ELECT 10MF/16V(CHIP)
C293	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C294	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C295	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C296	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C297	1-127-519-11	s CAPACITOR,ELECT 100MF/20V
C298	1-115-785-11	s CAPACITOR,ELECT 470MF/25V(105C
C299	1-163-037-11	s CAPACITOR,CHIP CERAMIC 0.022MF
C301	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C302	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C303	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C304	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C305	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C306	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C307	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C308	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C309	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C310	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C311	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C312	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C313	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C314	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C315	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C316	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C317	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C318	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C319	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C320	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C321	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C322	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V
C323	1-163-038-00	s CAPACITOR, CERAMIC 0.1MF/25V

(IO-193 BOARD)

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(IO-193 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C1018	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1019	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1020	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1021	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1022	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1023	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1024	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1025	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1026	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1027	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1028	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1029	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1030	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1031	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1032	1-107-682-11	s	CAPACITOR,CHIP 1MF/16V (3216)
C1033	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1034	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1035	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C1036	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C1037	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C1038	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C1039	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C1040	1-113-985-11	s	CAPACITOR,TANTALUM 10MF/20V
C1041	1-113-985-11	s	CAPACITOR,TANTALUM 10MF/20V
C1042	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1043	1-113-985-11	s	CAPACITOR,TANTALUM 10MF/20V
C1044	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1101	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1102	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1103	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1104	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1105	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1106	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1107	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1108	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1111	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1112	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1113	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1114	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1115	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1116	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1117	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1118	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C1119	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C1120	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1121	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C1122	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C1123	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1124	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C1125	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1126	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C1127	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C1128	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1129	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C1130	1-164-346-11	s	CAPACITOR CHIP CERAMIC 1MF/16V
C1131	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1132	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1133	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1134	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V

(IO-193 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
CN301	1-779-393-11	o CONNECTOR, BOARD TO BOARD 100P
CN302	1-779-393-11	o CONNECTOR, BOARD TO BOARD 100P
CN401	1-779-393-11	o CONNECTOR, BOARD TO BOARD 100P
CN402	1-779-393-11	o CONNECTOR, BOARD TO BOARD 100P
CN501	1-779-393-11	o CONNECTOR, BOARD TO BOARD 100P
CN601	1-573-714-11	o HEADER, CONNECTOR 20P
CN901	1-779-393-11	o CONNECTOR, BOARD TO BOARD 100P
CN1001	1-779-393-11	o CONNECTOR, BOARD TO BOARD 100P
CN1101	1-506-468-11	s PIN,CONNECTOR (3P)
CN1102	1-506-468-11	s PIN,CONNECTOR (3P)
CN1103	1-506-468-11	s PIN,CONNECTOR (3P)
CN1104	1-506-468-11	s PIN,CONNECTOR (3P)
D201	8-719-800-76	s DIODE 1SS226
D202	8-719-800-76	s DIODE 1SS226
D203	8-719-064-69	s DIODE DE10SC3L-TA
D204	8-719-064-69	s DIODE DE10SC3L-TA
D205	8-719-064-69	s DIODE DE10SC3L-TA
D206	8-719-064-69	s DIODE DE10SC3L-TA
D207	8-719-064-69	s DIODE DE10SC3L-TA
D208	8-719-064-69	s DIODE DE10SC3L-TA
D210	8-719-800-76	s DIODE 1SS226
D211	8-719-800-76	s DIODE 1SS226
D212	8-719-064-69	s DIODE DE10SC3L-TA
D213	8-719-064-69	s DIODE DE10SC3L-TA
D214	8-719-800-76	s DIODE 1SS226
D215	8-719-975-84	s LED AY1101W
D216	8-719-800-76	s DIODE 1SS226
D217	8-719-800-76	s DIODE 1SS226
D218	8-719-064-69	s DIODE DE10SC3L-TA
D1101	8-719-951-19	s DIODE VR1101W-TR
D1102	8-719-951-19	s DIODE VR1101W-TR
D1103	8-719-951-19	s DIODE VR1101W-TR
D1104	8-719-951-19	s DIODE VR1101W-TR
D1105	8-719-951-19	s DIODE VR1101W-TR
D1106	8-719-800-76	s DIODE 1SS226
D1107	8-719-800-76	s DIODE 1SS226
D1108	8-719-800-76	s DIODE 1SS226
D1109	8-719-800-76	s DIODE 1SS226
F201	Δ 1-533-477-11	s FUSE, CHIP 8A (6125)
FB1001	1-500-425-11	s BEAD, FERRITE
FB1002	1-500-425-11	s BEAD, FERRITE
FB1301	1-500-425-11	s BEAD, FERRITE
FB1302	1-500-425-11	s BEAD, FERRITE
IC201	8-759-983-69	s IC LM358PS
IC202	8-759-937-36	s IC TL1451ACNS
IC203	8-759-983-69	s IC LM358PS
IC204	8-759-937-36	s IC TL1451ACNS
IC205	8-759-983-69	s IC LM358PS
IC206	8-759-937-36	s IC TL1451ACNS
IC209	8-759-983-69	s IC LM358PS
IC210	8-759-937-36	s IC TL1451ACNS
IC211	8-759-637-50	s IC TA48M025F(TE16L)
IC212	8-759-983-69	s IC LM358PS
IC213	8-759-937-36	s IC TL1451ACNS
IC301	8-759-386-27	s IC 74LCX04MTCX
IC302	8-759-464-46	s IC CXD8899J
IC303	8-759-528-53	s IC IDT74FCT16374ETPA-TL

(IO-193 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC304	8-759-464-46	s IC CXD8899J
IC305	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC306	8-759-386-27	s IC 74LCX04MTCX
IC307	8-759-464-46	s IC CXD8899J
IC308	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC309	8-759-464-46	s IC CXD8899J
IC310	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC401	8-759-386-27	s IC 74LCX04MTCX
IC402	8-759-464-46	s IC CXD8899J
IC403	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC404	8-759-464-46	s IC CXD8899J
IC405	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC406	8-759-386-27	s IC 74LCX04MTCX
IC407	8-759-464-46	s IC CXD8899J
IC408	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC409	8-759-464-46	s IC CXD8899J
IC410	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC501	8-759-386-27	s IC 74LCX04MTCX
IC502	8-759-464-46	s IC CXD8899J
IC503	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC504	8-759-464-46	s IC CXD8899J
IC505	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC506	8-759-528-94	s IC CXD9057R
IC508	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC509	8-759-528-94	s IC CXD9057R
IC511	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC602	8-759-490-41	s IC TC74VHCT541AFT(EL)
IC603	8-759-660-47	s IC EPF10K20TC144-3(04)
IC608	8-759-660-47	s IC EPF10K20TC144-3(04)
IC701	8-759-464-47	s IC CXD8893J
IC702	8-759-464-47	s IC CXD8893J
IC703	8-759-464-47	s IC CXD8893J
IC704	8-759-464-47	s IC CXD8893J
IC705	8-759-464-47	s IC CXD8893J
IC801	8-759-389-48	s IC 74LCX16374MTDX
IC802	8-759-528-94	s IC CXD9057R
IC803	8-759-389-48	s IC 74LCX16374MTDX
IC804	8-759-528-94	s IC CXD9057R
IC805	8-759-389-48	s IC 74LCX16374MTDX
IC806	8-759-528-94	s IC CXD9057R
IC807	8-759-389-48	s IC 74LCX16374MTDX
IC808	8-759-528-94	s IC CXD9057R
IC809	8-759-389-48	s IC 74LCX16374MTDX
IC810	8-759-528-94	s IC CXD9057R
IC811	8-759-389-48	s IC 74LCX16374MTDX
IC812	8-759-528-94	s IC CXD9057R
IC813	8-759-389-48	s IC 74LCX16374MTDX
IC814	8-759-528-94	s IC CXD9057R
IC901	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC902	8-759-464-46	s IC CXD8899J
IC903	8-759-389-48	s IC 74LCX16374MTDX
IC904	8-759-386-27	s IC 74LCX04MTCX
IC905	8-759-528-53	s IC IDT74FCT16374ETPA-TL
IC906	8-759-464-46	s IC CXD8899J
IC907	8-759-389-48	s IC 74LCX16374MTDX
IC908	8-759-528-94	s IC CXD9057R
IC909	8-759-389-26	s IC 74LCX08MTCX
IC910	8-759-528-94	s IC CXD9057R
IC911	8-759-528-94	s IC CXD9057R

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Ref. No. or Q'ty	Part No.	SP	Description
IC1001	8-759-528-53	s IC	IDT74FCT16374ETPA-TL
IC1002	8-759-464-46	s IC	CXD8899J
IC1003	8-759-389-48	s IC	74LCX16374MTDX
IC1004	8-759-386-27	s IC	74LCX04MTCX
IC1005	8-759-528-53	s IC	IDT74FCT16374ETPA-TL
IC1006	8-759-464-46	s IC	CXD8899J
IC1007	8-759-389-48	s IC	74LCX16374MTDX
IC1009	8-759-490-41	s IC	TC74VHCT541AFT(EL)
IC1010	8-759-461-39	s IC	MB90091A-120
IC1011	8-759-456-26	s IC	74LCX541MTCX
IC1012	8-759-490-41	s IC	TC74VHCT541AFT(EL)
IC1102	8-759-389-45	s IC	74LCX16244MTDX
IC1103	8-759-389-45	s IC	74LCX16244MTDX
IC1105	8-759-542-61	s IC	EPM7128-TXINIT-V1
IC1106	8-759-389-45	s IC	74LCX16244MTDX
IC1107	8-759-523-97	s IC	TC74VHC123AFT(EL)
IC1108	8-759-386-27	s IC	74LCX04MTCX
IC1109	8-759-523-97	s IC	TC74VHC123AFT(EL)
IC1110	8-759-523-97	s IC	TC74VHC123AFT(EL)
IC1111	8-759-523-97	s IC	TC74VHC123AFT(EL)
IC1112	8-759-523-97	s IC	TC74VHC123AFT(EL)
IC1113	8-759-524-20	s IC	TC74VHC165FT (EL)
IC1114	8-759-524-20	s IC	TC74VHC165FT (EL)
IC1115	8-759-524-27	s IC	TC74VHC244FT(EL)
IC1201	8-759-089-31	s IC	IDT74FCT16245ATPV-TL
IC1202	8-759-590-17	s IC	IDT74FCT16244ATPV-TL
IC1203	8-759-389-31	s IC	74LCX125MTCX
IC1208	8-759-456-26	s IC	74LCX541MTCX
IC1209	8-759-389-45	s IC	74LCX16244MTDX
IC1210	8-759-386-25	s IC	74LCX245MTCX
IC1211	8-759-490-43	s IC	TC74VHCT540AFT(EL)
IC1212	8-759-590-17	s IC	IDT74FCT16244ATPV-TL
IC1213	8-759-391-30	s IC	74LVX3245QSCX
IC1214	8-759-590-17	s IC	IDT74FCT16244ATPV-TL
IC1215	8-759-590-17	s IC	IDT74FCT16244ATPV-TL
IC1301	8-759-466-21	s IC	S4405B-80
IC1302	8-759-465-49	s IC	MC10ELT21DR2
IC1303	8-759-523-51	s IC	TC74ACT574FT(EL)
IC1304	8-759-466-59	s IC	CGS2535TVX
IC1305	8-759-523-51	s IC	TC74ACT574FT(EL)
IC1306	8-759-466-59	s IC	CGS2535TVX
IC1307	8-759-386-26	s IC	74LCX574MTCX
IC1308	8-759-466-59	s IC	CGS2535TVX
IC1309	8-759-466-59	s IC	CGS2535TVX
IS1101	1-251-731-11	o	SOCKET, IC 68P
IS1105	1-251-272-11	s	SOCKET, IC
L201	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L202	1-412-048-11	s	COIL,CHOKE 65UH
L203	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L204	1-412-048-11	s	COIL,CHOKE 65UH
L205	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L206	1-412-048-11	s	COIL,CHOKE 65UH
L207	1-412-048-11	s	COIL,CHOKE 65UH
L208	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L209	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L210	1-412-048-11	s	COIL,CHOKE 65UH
L211	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L212	1-412-048-11	s	COIL,CHOKE 65UH

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Ref. No. or Q'ty	Part No.	SP	Description
L213	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L217	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L218	1-412-047-11	s	COIL,CHOKE 45UH
L219	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L220	1-412-047-11	s	COIL,CHOKE 45UH
L221	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L222	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L223	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L224	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L225	1-412-048-11	s	COIL,CHOKE 65UH
L226	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L301	1-424-643-11	s	COIL, CHOKE 10UH
L302	1-424-643-11	s	COIL, CHOKE 10UH
L303	1-424-643-11	s	COIL, CHOKE 10UH
L304	1-424-643-11	s	COIL, CHOKE 10UH
L305	1-424-643-11	s	COIL, CHOKE 10UH
L306	1-424-643-11	s	COIL, CHOKE 10UH
L307	1-424-643-11	s	COIL, CHOKE 10UH
L308	1-424-643-11	s	COIL, CHOKE 10UH
L309	1-424-643-11	s	COIL, CHOKE 10UH
L310	1-424-643-11	s	COIL, CHOKE 10UH
L401	1-424-643-11	s	COIL, CHOKE 10UH
L402	1-424-643-11	s	COIL, CHOKE 10UH
L403	1-424-643-11	s	COIL, CHOKE 10UH
L404	1-424-643-11	s	COIL, CHOKE 10UH
L405	1-424-643-11	s	COIL, CHOKE 10UH
L406	1-424-643-11	s	COIL, CHOKE 10UH
L407	1-424-643-11	s	COIL, CHOKE 10UH
L408	1-424-643-11	s	COIL, CHOKE 10UH
L409	1-424-643-11	s	COIL, CHOKE 10UH
L410	1-424-643-11	s	COIL, CHOKE 10UH
L501	1-424-643-11	s	COIL, CHOKE 10UH
L502	1-424-643-11	s	COIL, CHOKE 10UH
L503	1-424-643-11	s	COIL, CHOKE 10UH
L504	1-424-643-11	s	COIL, CHOKE 10UH
L505	1-424-643-11	s	COIL, CHOKE 10UH
L901	1-424-643-11	s	COIL, CHOKE 10UH
L902	1-424-643-11	s	COIL, CHOKE 10UH
L903	1-424-643-11	s	COIL, CHOKE 10UH
L904	1-424-643-11	s	COIL, CHOKE 10UH
L905	1-424-643-11	s	COIL, CHOKE 10UH
L1001	1-424-643-11	s	COIL, CHOKE 10UH
L1002	1-424-643-11	s	COIL, CHOKE 10UH
L1003	1-424-643-11	s	COIL, CHOKE 10UH
L1004	1-424-643-11	s	COIL, CHOKE 10UH
L1005	1-424-643-11	s	COIL, CHOKE 10UH
Q201	8-729-117-32	s	TRANSISTOR 2SC4177
Q202	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q203	8-729-117-32	s	TRANSISTOR 2SC4177
Q204	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q205	8-729-044-78	s	TRANSISTOR 2SJ327-Z-E1
Q206	8-729-117-32	s	TRANSISTOR 2SC4177
Q207	8-729-044-78	s	TRANSISTOR 2SJ327-Z-E1
Q208	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q209	8-729-117-32	s	TRANSISTOR 2SC4177
Q210	8-729-044-78	s	TRANSISTOR 2SJ327-Z-E1
Q211	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q212	8-729-117-32	s	TRANSISTOR 2SC4177

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Ref. No. or Q'ty	Part No.	SP Description
Q213	8-729-044-78	s TRANSISTOR 2SJ327-Z-E1
Q214	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q215	8-729-117-32	s TRANSISTOR 2SC4177
Q216	8-729-044-78	s TRANSISTOR 2SJ327-Z-E1
Q217	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q218	8-729-117-32	s TRANSISTOR 2SC4177
Q219	8-729-044-78	s TRANSISTOR 2SJ327-Z-E1
Q220	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q221	8-729-117-32	s TRANSISTOR 2SC4177
Q222	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q223	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q224	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q226	8-729-117-32	s TRANSISTOR 2SC4177
Q227	8-729-142-68	s TRANSISTOR 2SJ143
Q228	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q229	8-729-117-32	s TRANSISTOR 2SC4177
Q230	8-729-142-68	s TRANSISTOR 2SJ143
Q231	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q232	8-729-117-32	s TRANSISTOR 2SC4177
Q233	8-729-044-78	s TRANSISTOR 2SJ327-Z-E1
Q234	8-729-140-63	s TRANSISTOR 2SA1611-M5M6
Q1101	8-729-924-65	s TRANSISTOR DTC123YU
Q1102	8-729-924-65	s TRANSISTOR DTC123YU
Q1103	8-729-924-65	s TRANSISTOR DTC123YU
Q1104	8-729-924-65	s TRANSISTOR DTC123YU
R201	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R202	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R203	1-216-677-11	s RESISTOR,CHIP 12K 1/10W(2012)
R204	1-216-670-11	s RESISTOR,CHIP 6.2K 1/10W(2012)
R205	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R206	1-216-643-11	s RESISTOR,CHIP 470 1/10W (2012)
R207	1-216-678-11	s RESISTOR,CHIP 13K 1/10W(2012)
R208	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R209	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R210	1-216-677-11	s RESISTOR,CHIP 12K 1/10W(2012)
R211	1-216-679-11	s RESISTOR,CHIP 15K 1/10W (2012)
R212	1-216-682-11	s RESISTOR,CHIP 20K 1/10W (2012)
R213	1-216-679-11	s RESISTOR,CHIP 15K 1/10W (2012)
R214	1-216-677-11	s RESISTOR,CHIP 12K 1/10W(2012)
R215	1-216-698-11	s RESISTOR,CHIP 91K 1/10W(2012)
R216	1-216-679-11	s RESISTOR,CHIP 15K 1/10W (2012)
R217	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R218	1-216-687-11	s RESISTOR,CHIP 33K 1/10W (2012)
R219	1-216-679-11	s RESISTOR,CHIP 15K 1/10W (2012)
R220	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R221	1-216-687-11	s RESISTOR,CHIP 33K 1/10W (2012)
R222	1-216-682-11	s RESISTOR,CHIP 20K 1/10W (2012)
R223	1-216-698-11	s RESISTOR,CHIP 91K 1/10W(2012)
R224	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R225	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R226	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R227	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R228	1-216-643-11	s RESISTOR,CHIP 470 1/10W (2012)
R229	1-216-678-11	s RESISTOR,CHIP 13K 1/10W(2012)
R230	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R231	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R232	1-216-677-11	s RESISTOR,CHIP 12K 1/10W(2012)
R233	1-216-679-11	s RESISTOR,CHIP 15K 1/10W (2012)
R234	1-216-671-11	s RESISTOR,CHIP 6.8K 1/10W(2012)

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Ref. No. or Q'ty	Part No.	SP Description
R235	1-216-681-11	s RESISTOR,CHIP 18K 1/10W (2012)
R236	1-216-677-11	s RESISTOR,CHIP 12K 1/10W(2012)
R237	1-216-682-11	s RESISTOR,CHIP 20K 1/10W (2012)
R238	1-216-679-11	s RESISTOR,CHIP 15K 1/10W (2012)
R239	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R240	1-216-687-11	s RESISTOR,CHIP 33K 1/10W (2012)
R241	1-216-681-11	s RESISTOR,CHIP 18K 1/10W (2012)
R242	1-216-669-11	s RESISTOR,CHIP 5.6K 1/10W(2012)
R243	1-216-671-11	s RESISTOR,CHIP 6.8K 1/10W(2012)
R244	1-216-687-11	s RESISTOR,CHIP 33K 1/10W (2012)
R245	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R246	1-216-682-11	s RESISTOR,CHIP 20K 1/10W (2012)
R247	1-218-756-11	s RESISTOR,CHIP 150K 1/10W(2012)
R248	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R249	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R250	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R251	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R252	1-216-682-11	s RESISTOR,CHIP 20K 1/10W (2012)
R253	1-216-671-11	s RESISTOR,CHIP 6.8K 1/10W(2012)
R254	1-216-660-11	s RESISTOR,CHIP 2.4K 1/10W(2012)
R256	1-216-677-11	s RESISTOR,CHIP 12K 1/10W(2012)
R257	1-216-679-11	s RESISTOR,CHIP 15K 1/10W (2012)
R258	1-216-671-11	s RESISTOR,CHIP 6.8K 1/10W(2012)
R259	1-216-681-11	s RESISTOR,CHIP 18K 1/10W (2012)
R260	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R261	1-216-687-11	s RESISTOR,CHIP 33K 1/10W (2012)
R262	1-216-671-11	s RESISTOR,CHIP 6.8K 1/10W(2012)
R263	1-216-677-11	s RESISTOR,CHIP 12K 1/10W(2012)
R264	1-216-679-11	s RESISTOR,CHIP 15K 1/10W (2012)
R265	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R266	1-216-687-11	s RESISTOR,CHIP 33K 1/10W (2012)
R267	1-216-681-11	s RESISTOR,CHIP 18K 1/10W (2012)
R268	1-216-669-11	s RESISTOR,CHIP 5.6K 1/10W(2012)
R269	1-218-756-11	s RESISTOR,CHIP 150K 1/10W(2012)
R270	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R271	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R272	1-216-659-11	s RESISTOR,CHIP 2.2K 1/10W(2012)
R273	1-216-603-11	s RESISTOR,CHIP 10 1/10W(2012)
R274	1-216-627-11	s RESISTOR,CHIP 100 1/10W (2012)
R275	1-216-675-11	s RESISTOR,CHIP 10K 1/10W(2012)
R276	1-216-667-11	s RESISTOR,CHIP 4.7K 1/10W(2012)
R277	1-216-677-11	s RESISTOR,CHIP 12K 1/10W(2012)
R278	1-216-671-11	s RESISTOR,CHIP 6.8K 1/10W(2012)
R279	1-216-643-11	s RESISTOR,CHIP 470 1/10W (2012)
R280	1-216-668-11	s RESISTOR,CHIP 5.1K 1/10W(2012)
R281	1-216-643-11	s RESISTOR,CHIP 470 1/10W (2012)
R282	1-216-668-11	s RESISTOR,CHIP 5.1K 1/10W(2012)
R293	1-216-682-11	s RESISTOR,CHIP 20K 1/10W (2012)
R294	1-216-643-11	s RESISTOR,CHIP 470 1/10W (2012)
R295	1-216-678-11	s RESISTOR,CHIP 13K 1/10W(2012)
R298	1-216-677-11	s RESISTOR,CHIP 12K 1/10W(2012)
R299	1-216-679-11	s RESISTOR,CHIP 15K 1/10W (2012)
R601	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R602	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R603	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R604	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R605	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R606	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)
R607	1-216-651-11	s RESISTOR,CHIP 1K 1/10W(2012)

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[illegible]

(IO-193 BOARD)

[illegible]

MIX-42 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-8325-928-A	o	MOUNTED CIRCUIT BOARD, MIX-42
2pcs	3-624-100-02	o	LEVER,PWB
1pc	4-886-821-11	s	SCREW,M3X6 CASE (SILVER)
8pcs	7-682-548-04	s	SCREW +B3X8
7pcs	3-703-249-01	s	SCREW +PTTWH3X6
C001	1-115-785-11	s	CAPACITOR,ELECT 470MF/25V(105C
C002	1-115-785-11	s	CAPACITOR,ELECT 470MF/25V(105C
C003	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C004	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C005	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C006	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C007	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C008	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C009	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C010	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C011	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C012	1-163-135-00	s	CAPACITOR,CHIP CERAMIC 560PF
C013	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C014	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C015	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C016	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C017	1-127-519-11	s	CAPACITOR,ELECT 100MF/20V
C018	1-127-519-11	s	CAPACITOR,ELECT 100MF/20V
C019	1-115-785-11	s	CAPACITOR,ELECT 470MF/25V(105C
C020	1-127-519-11	s	CAPACITOR,ELECT 100MF/20V
C021	1-127-519-11	s	CAPACITOR,ELECT 100MF/20V
C022	1-115-785-11	s	CAPACITOR,ELECT 470MF/25V(105C
C023	1-115-785-11	s	CAPACITOR,ELECT 470MF/25V(105C
C024	1-115-785-11	s	CAPACITOR,ELECT 470MF/25V(105C
C025	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C026	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C027	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C028	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C029	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C030	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C031	1-163-263-11	s	CAPACITOR CERAMIC 330PF/50V
C032	1-163-037-11	s	CAPACITOR,CHIP CERAMIC 0.022MF
C033	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C034	1-163-135-00	s	CAPACITOR,CHIP CERAMIC 560PF
C035	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C036	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C037	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C038	1-127-519-11	s	CAPACITOR,ELECT 100MF/20V
C039	1-127-519-11	s	CAPACITOR,ELECT 100MF/20V
C040	1-115-785-11	s	CAPACITOR,ELECT 470MF/25V(105C
C041	1-127-519-11	s	CAPACITOR,ELECT 100MF/20V
C042	1-127-519-11	s	CAPACITOR,ELECT 100MF/20V
C043	1-115-785-11	s	CAPACITOR,ELECT 470MF/25V(105C
C044	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C045	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C046	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C047	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C048	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C049	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C050	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C051	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C052	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C053	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V

(MIX-42 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C054	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C055	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C056	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C057	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C058	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C059	1-126-396-11	s	CAPACITOR,ELECT 47MF/16V(CHIP)
C101	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C102	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C103	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C105	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C107	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C108	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C109	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C111	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C113	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C114	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C115	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C116	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C117	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C118	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C119	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C120	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C121	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C122	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C125	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C126	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C127	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C128	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C151	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C152	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C153	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C154	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C156	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C157	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C159	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C160	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C161	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C162	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C163	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C164	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C165	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C167	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C169	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C170	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C171	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C172	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C173	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C174	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C175	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C176	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C177	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C178	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C179	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C180	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C183	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C184	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C201	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V

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(MIX-42 BOARD)

[illegible][illegible]

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Ref. No. or Q'ty	Part No.	SP	Description	
C975	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C976	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C977	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C978	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C979	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C980	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C981	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C982	1-164-346-11	s	CAPACITOR CHIP CERAMIC	1MF/16V
C983	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C984	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C985	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C986	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C987	1-115-339-11	s	CAPACITOR, CERAMIC	0.1MF/50V
C1201	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1202	1-113-985-11	s	CAPACITOR, TANTALUM	10MF/20V
C1203	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1204	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1205	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1206	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1207	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1208	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1209	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1211	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1212	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1213	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1251	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1252	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1253	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1254	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1255	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1258	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1259	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1260	1-163-038-00	s	CAPACITOR, CERAMIC	0.1MF/25V
C1301	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1302	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1303	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1304	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1305	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1306	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1307	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1308	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1309	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1310	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1311	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1312	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1313	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1314	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1315	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1316	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1317	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1318	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1319	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1320	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1321	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1322	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1323	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1324	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1325	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V
C1326	1-163-021-91	s	CAPACITOR, CERAMIC	0.01MF/50V

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Ref. No. or Q'ty	Part No.	SP	Description
C1327	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1328	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1331	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1333	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1347	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1349	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1351	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1353	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1355	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1357	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1361	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1362	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1363	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1365	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1366	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1367	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1368	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1369	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1370	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1371	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1372	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1373	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1374	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1375	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1376	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1377	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1378	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1379	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1380	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1381	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1382	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1383	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1384	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1385	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1386	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1387	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1388	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1389	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1390	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1391	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1392	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1393	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1395	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1397	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1399	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1401	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1403	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1651	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1652	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
C1653	1-163-038-00	s	CAPACITOR, CERAMIC 0.1MF/25V
CN901	1-573-714-11	o	HEADER, CONNECTOR 20P
CN1101	1-506-468-11	s	PIN,CONNECTOR (3P)
CN1102	1-506-468-11	s	PIN,CONNECTOR (3P)
CN1103	1-506-468-11	s	PIN,CONNECTOR (3P)
CN1104	1-506-468-11	s	PIN,CONNECTOR (3P)
D001	8-719-800-76	s	DIODE 1SS226
D002	8-719-800-76	s	DIODE 1SS226
D003	8-719-800-76	s	DIODE 1SS226
D004	8-719-210-60	s	DIODE F25P04QS

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Ref. No. or Q'ty	Part No.	SP	Description
D005	8-719-210-60	s	DIODE F25P04QS
D006	8-719-210-60	s	DIODE F25P04QS
D007	8-719-210-60	s	DIODE F25P04QS
D008	8-719-975-84	s	LED AY1101W
D009	8-719-975-84	s	LED AY1101W
D010	8-719-975-84	s	LED AY1101W
D011	8-719-975-84	s	LED AY1101W
D012	8-719-975-84	s	LED AY1101W
D901	8-719-800-76	s	DIODE 1SS226
D902	8-719-800-76	s	DIODE 1SS226
D903	8-719-800-76	s	DIODE 1SS226
D904	8-719-800-76	s	DIODE 1SS226
F001	△ 1-533-477-11	s	FUSE, CHIP 8A (6125)
FB1201	1-500-425-11	s	BEAD, FERRITE
FB1202	1-500-425-11	s	BEAD, FERRITE
IC001	8-759-983-69	s	IC LM358PS
IC002	8-759-937-36	s	IC TL1451ACNS
IC003	8-759-983-69	s	IC LM358PS
IC004	8-759-937-36	s	IC TL1451ACNS
IC005	8-749-017-21	s	IC SI-3025LS-TL
IC006	8-749-017-21	s	IC SI-3025LS-TL
IC007	8-749-017-21	s	IC SI-3025LS-TL
IC008	8-749-017-21	s	IC SI-3025LS-TL
IC101	8-759-528-94	s	IC CXD9057R
IC102	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC104	8-759-466-62	s	IC CXD8894Q
IC105	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC107	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC108	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC109	8-759-464-46	s	IC CXD8899J
IC110	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC111	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC113	8-759-389-48	s	IC 74LCX16374MTDX
IC114	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC151	8-759-528-94	s	IC CXD9057R
IC152	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC153	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC155	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC156	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC157	8-759-466-62	s	IC CXD8894Q
IC158	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC160	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC161	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC162	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC163	8-759-464-46	s	IC CXD8899J
IC164	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC165	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC167	8-759-389-48	s	IC 74LCX16374MTDX
IC201	8-759-528-94	s	IC CXD9057R
IC202	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC204	8-759-466-62	s	IC CXD8894Q
IC205	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC208	8-759-389-48	s	IC 74LCX16374MTDX
IC209	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC251	8-759-528-94	s	IC CXD9057R
IC252	8-759-572-89	s	IC IDT74FCT162374ETPA-TL
IC253	8-759-572-89	s	IC IDT74FCT162374ETPA-TL

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Ref. No. or Q'ty	Part No.	SP Description
IC255	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC256	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC257	8-759-466-62	s IC CXD8894Q
IC258	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC261	8-759-389-48	s IC 74LCX16374MTDX
IC301	8-759-528-94	s IC CXD9057R
IC302	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC304	8-759-466-62	s IC CXD8894Q
IC305	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC308	8-759-389-48	s IC 74LCX16374MTDX
IC309	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC351	8-759-528-94	s IC CXD9057R
IC352	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC353	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC355	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC356	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC357	8-759-466-62	s IC CXD8894Q
IC358	8-759-572-89	s IC IDT74FCT162374ETPA-TL
IC361	8-759-389-48	s IC 74LCX16374MTDX
IC401	8-759-528-94	s IC CXD9057R
IC402	8-759-389-48	s IC 74LCX16374MTDX
IC403	8-759-572-83	s IC CXD8898AQ
IC405	8-759-389-48	s IC 74LCX16374MTDX
IC406	8-759-389-48	s IC 74LCX16374MTDX
IC410	8-759-389-48	s IC 74LCX16374MTDX
IC411	8-759-389-48	s IC 74LCX16374MTDX
IC501	8-759-528-40	s IC IDT74FCT163CTSO-TL
IC502	8-759-389-48	s IC 74LCX16374MTDX
IC503	8-759-389-48	s IC 74LCX16374MTDX
IC504	8-759-389-48	s IC 74LCX16374MTDX
IC505	8-759-386-26	s IC 74LCX574MTCX
IC506	8-759-389-48	s IC 74LCX16374MTDX
IC507	8-759-389-48	s IC 74LCX16374MTDX
IC508	8-759-389-48	s IC 74LCX16374MTDX
IC509	8-759-389-48	s IC 74LCX16374MTDX
IC510	8-759-389-48	s IC 74LCX16374MTDX
IC511	8-759-389-48	s IC 74LCX16374MTDX
IC512	8-759-389-48	s IC 74LCX16374MTDX
IC513	8-759-389-48	s IC 74LCX16374MTDX
IC514	8-759-572-83	s IC CXD8898AQ
IC515	8-759-389-48	s IC 74LCX16374MTDX
IC516	8-759-389-48	s IC 74LCX16374MTDX
IC581	8-759-386-27	s IC 74LCX04MTCX
IC582	8-759-386-28	s IC 74LCX00MTCX
IC583	8-759-389-26	s IC 74LCX08MTCX
IC584	8-759-389-30	s IC 74LCX32MTCX
IC601	8-759-360-61	s IC CXD8848AQ
IC602	8-759-360-61	s IC CXD8848AQ
IC603	8-759-360-61	s IC CXD8848AQ
IC604	8-759-360-61	s IC CXD8848AQ
IC651	8-759-652-59	s IC EPFQC240AA
IC652	8-759-389-48	s IC 74LCX16374MTDX
IC653	8-759-652-59	s IC EPFQC240AA
IC654	8-759-389-48	s IC 74LCX16374MTDX
IC655	8-759-652-59	s IC EPFQC240AA
IC656	8-759-389-48	s IC 74LCX16374MTDX
IC657	8-759-652-59	s IC EPFQC240AA
IC658	8-759-389-48	s IC 74LCX16374MTDX
IC701	8-759-439-42	s IC CXD9022R

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Ref. No. or Q'ty	Part No.	SP Description
IC702	8-759-389-48	s IC 74LCX16374MTDX
IC703	8-759-528-94	s IC CXD9057R
IC751	8-759-528-94	s IC CXD9057R
IC752	8-759-528-94	s IC CXD9057R
IC753	8-759-439-42	s IC CXD9022R
IC754	8-759-389-48	s IC 74LCX16374MTDX
IC755	8-759-528-94	s IC CXD9057R
IC756	8-759-528-94	s IC CXD9057R
IC801	8-759-528-94	s IC CXD9057R
IC802	8-759-528-94	s IC CXD9057R
IC803	8-759-389-26	s IC 74LCX08MTCX
IC804	8-759-466-55	s IC 74LCX74MTCX
IC805	8-759-528-94	s IC CXD9057R
IC806	8-759-528-94	s IC CXD9057R
IC807	8-759-528-94	s IC CXD9057R
IC808	8-759-528-94	s IC CXD9057R
IC811	8-759-386-26	s IC 74LCX574MTCX
IC812	8-759-454-03	s IC IDT74FCT574CTSO-TL
IC813	8-759-454-03	s IC IDT74FCT574CTSO-TL
IC814	8-759-528-94	s IC CXD9057R
IC815	8-759-528-94	s IC CXD9057R
IC816	8-759-528-94	s IC CXD9057R
IC818	8-759-389-26	s IC 74LCX08MTCX
IC901	8-759-590-17	s IC IDT74FCT16244ATPV-TL
IC902	8-759-089-31	s IC IDT74FCT16245ATPV-TL
IC903	8-759-389-31	s IC 74LCX125MTCX
IC904	8-759-523-97	s IC TC74VHC123AFT(EL)
IC905	8-759-456-26	s IC 74LCX541MTCX
IC906	8-759-386-25	s IC 74LCX245MTCX
IC907	8-759-456-26	s IC 74LCX541MTCX
IC908	8-759-456-26	s IC 74LCX541MTCX
IC909	8-759-456-26	s IC 74LCX541MTCX
IC910	8-759-456-26	s IC 74LCX541MTCX
IC911	8-759-391-30	s IC 74LVX3245QSCX
IC912	8-759-490-41	s IC TC74VHCT541AFT(EL)
IC913	8-759-490-41	s IC TC74VHCT541AFT(EL)
IC914	8-759-490-41	s IC TC74VHCT541AFT(EL)
IC915	8-759-490-41	s IC TC74VHCT541AFT(EL)
IC916	8-759-523-97	s IC TC74VHC123AFT(EL)
IC917	8-759-524-20	s IC TC74VHC165FT(EL)
IC921	8-759-490-41	s IC TC74VHCT541AFT(EL)
IC922	8-759-490-41	s IC TC74VHCT541AFT(EL)
IC924	8-759-549-20	s IC SN74LV541APWR
IC926	8-759-389-31	s IC 74LCX125MTCX
IC927	8-759-524-20	s IC TC74VHC165FT(EL)
IC929	8-759-524-27	s IC TC74VHC244FT(EL)
IC930	8-759-386-27	s IC 74LCX04MTCX
IC1201	8-759-466-21	s IC S4405B-80
IC1202	8-759-466-59	s IC CGS2535TVX
IC1203	8-759-466-59	s IC CGS2535TVX
IC1204	8-759-466-59	s IC CGS2535TVX
IC1205	8-759-466-59	s IC CGS2535TVX
IC1207	8-759-466-59	s IC CGS2535TVX
IC1208	8-759-466-59	s IC CGS2535TVX
IC1209	8-759-466-59	s IC CGS2535TVX
IC1251	8-759-465-49	s IC MC10ELT21DR2
IC1252	8-759-523-51	s IC TC74ACT574FT(EL)
IC1253	8-759-523-51	s IC TC74ACT574FT(EL)
IC1256	8-759-386-26	s IC 74LCX574MTCX

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Ref. No. or Q'ty	Part No.	SP	Description
IC1257	8-759-386-26	s	IC 74LCX574MTCX
IC1258	8-759-386-26	s	IC 74LCX574MTCX
L001	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L002	1-412-047-11	s	COIL, CHOKe 45UH
L003	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L004	1-412-047-11	s	COIL, CHOKe 45UH
L005	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L006	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L007	1-412-047-11	s	COIL, CHOKe 45UH
L008	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
L009	1-412-047-11	s	COIL, CHOKe 45UH
L010	1-414-489-71	s	INDUCTOR, MICRO 2.7UH
Q001	8-729-117-32	s	TRANSISTOR 2SC4177
Q002	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q003	8-729-117-32	s	TRANSISTOR 2SC4177
Q004	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q005	8-729-142-68	s	TRANSISTOR 2SJ143
Q006	8-729-117-32	s	TRANSISTOR 2SC4177
Q007	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q008	8-729-142-68	s	TRANSISTOR 2SJ143
Q009	8-729-117-32	s	TRANSISTOR 2SC4177
Q010	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q011	8-729-142-68	s	TRANSISTOR 2SJ143
Q012	8-729-117-32	s	TRANSISTOR 2SC4177
Q013	8-729-140-63	s	TRANSISTOR 2SA1611-M5M6
Q014	8-729-142-68	s	TRANSISTOR 2SJ143
Q901	8-729-924-65	s	TRANSISTOR DTC123YU
Q902	8-729-924-65	s	TRANSISTOR DTC123YU
Q903	8-729-924-65	s	TRANSISTOR DTC123YU
Q904	8-729-924-65	s	TRANSISTOR DTC123YU
R001	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R002	1-216-678-11	s	RESISTOR,CHIP 13K 1/10W(2012)
R003	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R004	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R005	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R006	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R007	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R008	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R009	1-216-670-11	s	RESISTOR,CHIP 6.2K 1/10W(2012)
R010	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R011	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R012	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R013	1-216-682-11	s	RESISTOR,CHIP 20K 1/10W (2012)
R014	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R015	1-216-681-11	s	RESISTOR,CHIP 18K 1/10W (2012)
R016	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R017	1-216-682-11	s	RESISTOR,CHIP 20K 1/10W (2012)
R018	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R019	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R020	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R021	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R022	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R023	1-216-681-11	s	RESISTOR,CHIP 18K 1/10W (2012)
R024	1-216-669-11	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R025	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)

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Ref. No. or Q'ty	Part No.	SP	Description
R026	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R027	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R028	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R029	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R030	1-216-643-11	s	RESISTOR,CHIP 470 1/10W (2012)
R031	1-216-678-11	s	RESISTOR,CHIP 13K 1/10W(2012)
R032	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R033	1-216-667-11	s	RESISTOR,CHIP 4.7K 1/10W(2012)
R034	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R035	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R036	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R037	1-216-682-11	s	RESISTOR,CHIP 20K 1/10W (2012)
R038	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R039	1-216-681-11	s	RESISTOR,CHIP 18K 1/10W (2012)
R040	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R041	1-216-682-11	s	RESISTOR,CHIP 20K 1/10W (2012)
R042	1-216-677-11	s	RESISTOR,CHIP 12K 1/10W(2012)
R043	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R044	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R045	1-216-675-11	s	RESISTOR,CHIP 10K 1/10W(2012)
R046	1-216-687-11	s	RESISTOR CHIP 33K 1/10W (2012)
R047	1-216-681-11	s	RESISTOR,CHIP 18K 1/10W (2012)
R048	1-216-669-11	s	RESISTOR,CHIP 5.6K 1/10W(2012)
R049	1-216-679-11	s	RESISTOR,CHIP 15K 1/10W (2012)
R050	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R051	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R052	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R053	1-216-603-11	s	RESISTOR,CHIP 10 1/10W(2012)
R054	1-216-642-11	s	RESISTOR,CHIP 430 1/10W (2012)
R055	1-216-642-11	s	RESISTOR,CHIP 430 1/10W (2012)
R056	1-216-642-11	s	RESISTOR,CHIP 430 1/10W (2012)
R057	1-216-642-11	s	RESISTOR,CHIP 430 1/10W (2012)
R058	1-216-059-00	s	RESISTOR,CHIP 2.7K 1/10W(2012)
R059	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R060	1-216-045-00	s	RESISTOR,CHIP 680 1/10W(2012)
R061	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R062	1-216-045-00	s	RESISTOR,CHIP 680 1/10W(2012)
R501	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R502	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R503	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R504	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R505	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R651	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R652	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R653	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R654	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R658	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R659	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R660	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R661	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R662	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R663	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R664	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)
R665	1-216-049-91	s	RESISTOR,CHIP 1K 1/10W(2125)
R666	1-216-081-00	s	RESISTOR,CHIP 22K 1/10W(2012)
R667	1-216-009-00	s	RESISTOR,CHIP 22 1/10W (2012)

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Ref. No. or Q'ty	Part No.	SP	Description			
R919	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R920	1-216-009-00	s	RESISTOR,CHIP	22	1/10W	(2012)
R921	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R923	1-216-009-00	s	RESISTOR,CHIP	22	1/10W	(2012)
R925	1-216-009-00	s	RESISTOR,CHIP	22	1/10W	(2012)
R927	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R928	1-216-009-00	s	RESISTOR,CHIP	22	1/10W	(2012)
R929	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R931	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R932	1-216-009-00	s	RESISTOR,CHIP	22	1/10W	(2012)
R934	1-216-009-00	s	RESISTOR,CHIP	22	1/10W	(2012)
R936	1-216-009-00	s	RESISTOR,CHIP	22	1/10W	(2012)
R937	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R938	1-216-009-00	s	RESISTOR,CHIP	22	1/10W	(2012)
R939	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R941	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R942	1-216-049-91	s	RESISTOR,CHIP	1K	1/10W	(2125)
R943	1-216-049-91	s	RESISTOR,CHIP	1K	1/10W	(2125)
R944	1-216-049-91	s	RESISTOR,CHIP	1K	1/10W	(2125)
R947	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R949	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R951	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R957	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R959	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R961	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R967	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R969	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R971	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R977	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R979	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R981	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R987	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R989	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R991	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R997	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R999	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1001	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1007	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1009	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1011	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1017	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1019	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1021	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1027	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1029	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1031	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1037	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1039	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1041	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1047	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1049	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1051	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1057	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1059	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1061	1-216-022-00	s	RESISTOR,CHIP	75	1/10W	(2125)
R1066	1-216-049-91	s	RESISTOR,CHIP	1K	1/10W	(2125)
R1067	1-216-049-91	s	RESISTOR,CHIP	1K	1/10W	(2125)
R1068	1-216-049-91	s	RESISTOR,CHIP	1K	1/10W	(2125)
R1069	1-216-049-91	s	RESISTOR,CHIP	1K	1/10W	(2125)

(MIX-42 BOARD)

[illegible]

(MIX-42 BOARD)

[illegible]

(MIX-42 BOARD)

[illegible]

(MIX-42 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description		
RB708	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB709	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB710	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB711	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB712	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB713	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB714	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB715	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB716	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB717	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB718	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB719	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB720	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB721	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB722	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB723	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB724	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB751	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB752	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB753	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB802	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB803	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB804	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB805	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB901	1-239-309-11	s	RESISTOR ARRAY,CHIP	100K	
RB902	1-239-309-11	s	RESISTOR ARRAY,CHIP	100K	
RB903	1-239-309-11	s	RESISTOR ARRAY,CHIP	100K	
RB904	1-239-309-11	s	RESISTOR ARRAY,CHIP	100K	
RB905	1-239-307-11	s	RESISTOR ARRAY,CHIP	22K	
RB906	1-239-307-11	s	RESISTOR ARRAY,CHIP	22K	
RB907	1-239-307-11	s	RESISTOR ARRAY,CHIP	22K	
RB908	1-239-307-11	s	RESISTOR ARRAY,CHIP	22K	
RB909	1-239-307-11	s	RESISTOR ARRAY,CHIP	22K	
RB910	1-239-307-11	s	RESISTOR ARRAY,CHIP	22K	
RB911	1-239-307-11	s	RESISTOR ARRAY,CHIP	22K	
RB912	1-239-307-11	s	RESISTOR ARRAY,CHIP	22K	
RB913	1-239-307-11	s	RESISTOR ARRAY,CHIP	22K	
RB914	1-239-307-11	s	RESISTOR ARRAY,CHIP	22K	
RB915	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB916	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB917	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB918	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB919	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB920	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB921	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB922	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB923	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB924	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB925	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB926	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB927	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB928	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB929	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB930	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB931	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB932	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB933	1-239-621-11	s	NETWORK RESISTOR	22	(1608)
RB934	1-239-621-11	s	NETWORK RESISTOR	22	(1608)

(MIX-42 BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
RB1618	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1619	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1620	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1621	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1622	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1623	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1624	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1625	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1626	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1627	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1628	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1629	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1630	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1631	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1632	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1633	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1634	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1635	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1636	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1637	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1638	1-239-621-11	s	NETWORK RESISTOR 22 (1608)
RB1651	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB1652	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB1653	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB1654	1-233-448-11	s	RESISTOR, CHIP NETWORK 22
RB1655	1-233-448-11	s	RESISTOR, CHIP NETWORK 22

BVE-700

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-574-993-11	s CABLE BVS (W/CONNECTOR)(D-SUB)

Section 4

Semiconductor Pin Assignments

The following describes the semiconductor types used in this unit.

For semiconductors marked with page numbers in the index, refer to the corresponding pages in this section.

However, in some cases incompatible types are also listed, therefore, when a part is to be replaced, also refer to the Spare Parts section.

In addition, for semiconductors with ID Nos., refer to the separate CD-ROM titled “Semiconductor Pin Assignments” (Sony Part No. 9-968-546-xx) that allows searching for parts by semiconductor type or ID No.

The semiconductors in the manual or on the CD-ROM are listed by equivalent types. Thus the external view or the index mark indication may differ from the actual type.

Pin assignments and block diagrams are based on the IC manufacturer’s data book.

本機に使用されている半導体型名の一覧を下記に示します。索引中、ページが記載されている半導体は、本章の該当ページを参照してください。ただし、互換性のない型名を併記している場合がありますので、部品を交換するときは、Spare Partsの章を参照してください。

また、ID番号が記載されている半導体は、別途発行の“Semiconductor Pin Assignments” CD-ROM版 (ソニー部品番号：9-968-546-xx)を参照してください。半導体型名またはID番号から検索ができます。

マニュアルまたはCD-ROMに掲載されている半導体は、それぞれの機能を等価的に表わしたものです。

外観やインデックスマークの表示方法が実物と異なる場合があります。

ピン配置およびブロック図はICメーカーのデータブックに従いました。

DIODE	Page or ID No.	LED	Page or ID No.
10E-2	DA001-01	AY1101W-88	LC003-01
1S2835-T1	DC001-02	AY1101W-88-TR	LC003-01
1S2836	DC001-02		
1S2837-T1	DC001-03	CL-150PG-CD	LC001-01
1SS184	DC001-03	CL-150PG-CD-T	LC001-01
1SS226	DC001-01		
1SS226-TE85L	DC001-01	LA-401VN	LR072-01
1SS300-TE85L	DC001-02	LA301MB	LR072-02
1SS88	DA001-01	LD-001DU	LR057-01
1SV271-TPH3	DC008-02	LD-701MG	LR058-01
DA204U	DC001-01	PG1102W	LC003-01
DA204UT106	DC001-01	PG1102W-TR	LC003-01
DE10SC3L-TA	DC015-01		
DF30PC3M-4062	4-4	SLR-56DCT32	LR001-01
		SLR-56MCT32	LR001-01
F25P04QS	DM001-01	SLR-56VC3F	LR001-01
		SLR-56VCT32	LR001-01
HSU276TRF	DC008-02	SLR-56YCT32	LR001-01
RD3.9M-B1	DC001-04	VR1101W-TR	LC003-01
RD3.9M-T1B	DC001-04		
RLS-73	DC006-01		
RLS-73-TE-11	DC006-01		
UDZ-TE-17-2.7B	DC008-04		
UDZ-TE-17-4.3B	DC008-04		

TRANSISTOR	Page or ID No.
2SA1611-M5M6	TC001-01
2SA1611T1-M5M6	TC001-01
2SB962-Z-P	TR031-02
2SC1623-L5L6	TC001-02
2SC1623-T1-L5L6	TC001-02
2SC4116-GL	TC001-02
2SC4116-GL-TE85L	TC001-02
2SC4177-L6	TC001-02
2SC4177-T1L5L6	TC001-02
2SD774-34	TR009-02
2SJ143	TM004-06
2SJ327-Z-E1	TC002-06
DTA114EKA-T146	TC001-04
DTC123YU	TC001-03
DTC123YUA-T106	TC001-03
DTC124EUA-T106	TC001-03

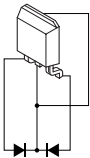
IC	Page or ID No.
74AC245SJ	TC74HC245P
74AC245SJX	TC74HC245P
74AC541SJX	MC74HC541N
74ACT163SJX	TC74HC163P
74LCX00MTCX	TC74HC00P
74LCX04MTCX	TC74HC04P
74LCX08MTCX	TC74HC08P
74LCX125MTCX	MC74HC125N
74LCX16244MTDX	IDT74FCT16244ATPV
74LCX16245MTDX	IDT74FCT16245ATPV-TR
74LCX16373MTDX	74LCX16373MTDX
74LCX16374MTDX	SN74ABT16374DL
74LCX244MTCX	TC74HC244P
74LCX245MTCX	TC74HC245P
74LCX32MTCX	TC74HC32P
74LCX541MTCX	MC74HC541N
74LCX574MTCX	TC74HC574P
74LCX74MTCX	TC74HC74P
74LVX3245QSCX	74LVX4245QSCX
93LC46BT/SN	BR93LC46F
AM26C31CNS	AM26LS31PC
AM26C31CNS-E05	AM26LS31PC
AM26C32CNS	AM26LS32PC
AM26C32CNS-E05	AM26LS32PC
AM27C256-150DC	MBM27C256A
CGS2535TVX	CGS2535TVX
CXA1451M	CXA1451M
CXB1345N-T4	4-4
CXD1095BR	CXD1095AR
CXD8804Q	CXD8804Q
CXD8848AQ	CXD8848Q
CXD8893J	CXD8893J
CXD8894Q	4-5
CXD8898AQ	CXD8898Q
CXD8899J	CXD8899J
CXD9022R	CXD9022R

IC	Page or ID No.
CXD9057R	CXD9057R
CY7C136-55JC	CY7C136-55JC
DEC21143-TD	DEC21143-TD
EL2090CM	EL2090CM
EPF10K20TC144-3	EPF10K20TC144-3
EPF10K20TC144-3(04)	EPF10K20TC144-3
EPFQC240AA	4-4
EPM7032SLC44-10(05)	4-6
EPM7128STC100-7	EPM7128STC100-7
EPM7192SQC160-15(05)	EPM7192SQC160-15
HD647180X	HD647180X
ICS1892Y	4-6
IDT74FCT162374ETPA-TL	SN74ABT16374DL
IDT74FCT16244ATPV	IDT74FCT16244ATPV
IDT74FCT16244ATPV-TL	IDT74FCT16244ATPV
IDT74FCT16245ATPV	IDT74FCT16245ATPV-TR
IDT74FCT16245ATPV-TL	IDT74FCT16245ATPV-TR
IDT74FCT16374ETPA-TL	SN74ABT16374DL
IDT74FCT163CTSO	TC74HC163P
IDT74FCT163CTSO-TL	TC74HC163P
IDT74FCT3807APY-TL	IDT74FCT3807APY-TL
IDT74FCT574CTSO	TC74HC574P
IDT74FCT574CTSO-TL	TC74HC574P
IDT79RV4700-133DP	NR4700LMQB-133
IVA-14208-TR1	4-6
KL5C80A20CFP	KL5C80A20CFP
KM416V4104CS-L6	KM416V4104BS-L6
KM684000CLR-7L	KM684000BLT-7L
KM684000CLT-7L	KM684000BLT-7L
LC361000AMLL-70-TLA	LC361000AMLL-70-TLA
LM1881M	LM1881N
LM2931CMX	4-6
LM319M	UPC319C
LM324NS	XRA10324AF
LM324NSR	XRA10324AF
LM358PS	RC4558
LM358PSR	RC4558
LMC6484IMX	XRA10324AF
LT1134ACSW	LT1134CS

M48T35Y-70MH1TR	M48T35Y-70MH1TR
MAX202CSE	MAX202CSE
MAX202CSE-T	MAX202CSE
MAX232CWE	MAX232CPE
MAX232CWE-TE-2	MAX232CPE
MB3771PF-ER	MB3771DIP
MB90091A-120	4-7
MBM29F040C-90PD-SFK	AM29F040-90JC
MC100LVEL91DWR2	4-7
MC10EL11DR2	MC10EL11DR2
MC10EL16DR2	MC10EL16DR2
MC10EL31DR2	MC10EL31DR2
MC10ELT20D	MC10ELT20D
MC10ELT21DR2	MC10ELT21DR2

DIODE

—TOP VIEW—

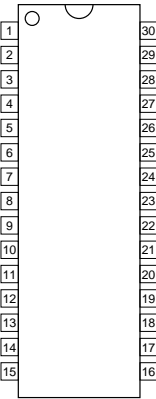


DF30PC3M-4062

IC

CXB1345N-T4 (SONY)

CLOCK DATA RECOVERY
—TOP VIEW—



- INPUTS**
- CLR

DIV1, DIV2

ECLK

INPUTSEL

MODE

RCLK

SDATAP, SDATAN

TEST
- : CLEAR

: MODE SELECT

: CLOCK

: INPUT SELECT

: MODE

: REFERENCE CLOCK

: SERIAL DATA

: TEST
- OUTPUTS**
- RDATAP, RDATAN

SCLKP, SCLKN

TEST OUT1 - TEST OUT3
- : RETIMED DATA

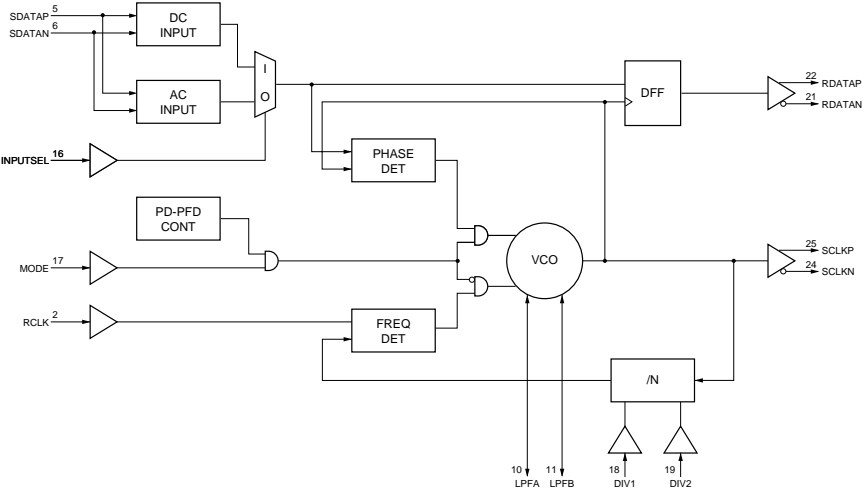
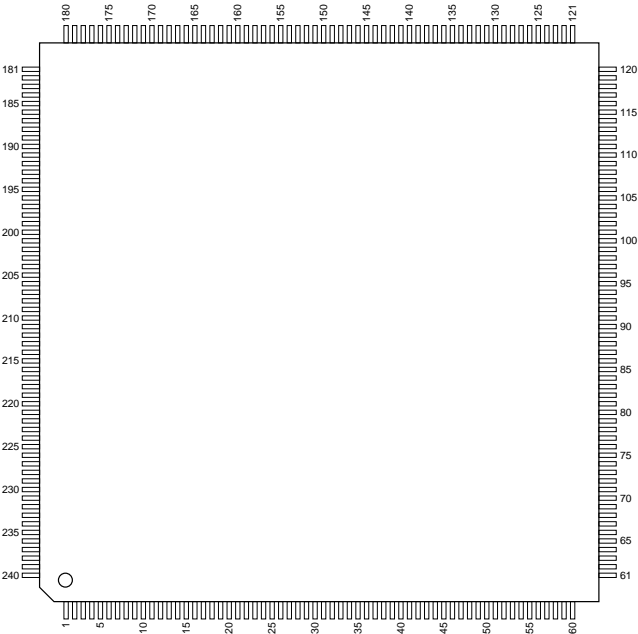
: RECOVERY CLOCK

: TEST
- INPUTS/OUTPUTS**
- LPFA, LPFB
- : LOOP FILTER

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	Vee4	11	I/O	LPFB	21	O	RDATAN
2	I	RCLK	12	I	ECLK	22	O	RDATAP
3	—	Vcc4	13	I	CLR	23	—	Vee1
4	O	TEST OUT1	14	—	Vcc3	24	O	SCLKN
5	I	SDATAP	15	—	Vee3	25	O	SCLKP
6	I	SDATAN	16	I	INPUTSEL	26	—	Vcc1
7	—	Vee2	17	I	MODE	27	—	Vcc2
8	—	Vcc2	18	I	DIV1	28	—	Vee2
9	I	TEST	19	I	DIV2	29	O	TEST OUT2
10	I/O	LPFA	20	—	Vcc1	30	O	TEST OUT3

EPPQC240AA (ALTERA)

EMBEDDED PROGRAMMABLE LOGIC DEVICE
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	TCK	61	I/O	I/O	121	I	CONFIG	181	I/O	DATA1, I/O
2	I/O	CONF DONE	62	I/O	I/O	122	—	Vcc	182	I/O	DATA2, I/O
3	O	CEO	63	I/O	I/O	123	I	MSEL1	183	I/O	DATA3, I/O
4	O	TDO	64	I/O	I/O	124	I	MSEL0	184	I/O	I/O
5	—	Vcc	65	I/O	I/O	125	—	GND	185	I/O	DATA4, I/O
6	I/O	I/O	66	I/O	I/O	126	I/O	I/O	186	I/O	DATA5, I/O
7	I/O	I/O	67	I/O	I/O	127	I/O	I/O	187	I/O	I/O
8	I/O	I/O	68	I/O	I/O	128	I/O	I/O	188	I/O	DATA6, I/O
9	I/O	I/O	69	—	GND	129	I/O	I/O	189	—	Vcc
10	—	GND	70	I/O	I/O	130	—	Vcc	190	I/O	DATA7, I/O
11	I/O	CLKUSR, I/O	71	I/O	I/O	131	I/O	I/O	191	I/O	I/O
12	I/O	I/O	72	I/O	I/O	132	I/O	I/O	192	I/O	I/O
13	I/O	I/O	73	I/O	I/O	133	I/O	I/O	193	I/O	I/O
14	I/O	I/O	74	I/O	I/O	134	I/O	I/O	194	I/O	I/O
15	I/O	I/O	75	I/O	I/O	135	—	GND	195	I/O	I/O
16	—	Vcc	76	I/O	I/O	136	I/O	I/O	196	I/O	I/O
17	I/O	I/O	77	—	Vcc	137	I/O	I/O	197	—	GND
18	I/O	I/O	78	I/O	I/O	138	I/O	I/O	198	I/O	I/O
19	I/O	I/O	79	I/O	I/O	139	I/O	I/O	199	I/O	I/O
20	I/O	I/O	80	I/O	I/O	140	—	Vcc	200	I/O	I/O
21	I/O	I/O	81	I/O	I/O	141	I/O	I/O	201	I/O	I/O
22	—	GND	82	I/O	I/O	142	I/O	I/O	202	I/O	I/O
23	I/O	RDY/BSY, I/O	83	I/O	I/O	143	I/O	I/O	203	I/O	I/O
24	I/O	I/O	84	I/O	I/O	144	I/O	I/O	204	I/O	I/O
25	I/O	I/O	85	—	GND	145	—	GND	205	—	Vcc
26	I/O	INIT DONE, I/O	86	I/O	I/O	146	I/O	I/O	206	I/O	I/O
27	—	Vcc	87	I/O	I/O	147	I/O	I/O	207	I/O	I/O
28	I/O	I/O	88	I/O	I/O	148	I/O	I/O	208	I/O	I/O
29	I/O	I/O	89	—	Vcc	149	I/O	I/O	209	I/O	DEV CLR, I/O
30	I/O	I/O	90	I/O	IN, I/O	150	—	Vcc	210	I/O	IN, I/O
31	I/O	I/O	91	I/O	CLK, I/O	151	I/O	I/O	211	I/O	CLK, I/O
32	—	GND	92	I/O	IN, I/O	152	I/O	I/O	212	I/O	IN, I/O
33	I/O	I/O	93	—	GND	153	I/O	I/O	213	I/O	DEV OE, I/O
34	I/O	I/O	94	I/O	I/O	154	I/O	I/O	214	I/O	I/O
35	I/O	I/O	95	I/O	I/O	155	—	GND	215	I/O	I/O
36	I/O	I/O	96	—	Vcc	156	I/O	I/O	216	—	GND
37	—	Vcc	97	I/O	I/O	157	I/O	I/O	217	I/O	I/O
38	I/O	I/O	98	I/O	I/O	158	I/O	I/O	218	I/O	I/O
39	I/O	I/O	99	I/O	I/O	159	I/O	I/O	219	I/O	I/O
40	I/O	I/O	100	I/O	I/O	160	I/O	Vcc	220	I/O	I/O
41	I/O	I/O	101	I/O	I/O	161	I/O	I/O	221	I/O	I/O
42	—	GND	102	I/O	I/O	162	I/O	I/O	222	I/O	I/O
43	I/O	I/O	103	I/O	I/O	163	I/O	I/O	223	I/O	I/O
44	I/O	I/O	104	—	GND	164	I/O	I/O	224	—	Vcc
45	I/O	I/O	105	I/O	I/O	165	—	GND	225	I/O	I/O
46	I/O	I/O	106	I/O	I/O	166	I/O	I/O	226	I/O	I/O
47	—	Vcc	107	I/O	I/O	167	I/O	I/O	227	I/O	I/O
48	I/O	I/O	108	I/O	I/O	168	I/O	I/O	228	I/O	I/O
49	I/O	I/O	109	I/O	I/O	169	I/O	I/O	229	I/O	I/O
50	I/O	I/O	110	I/O	I/O	170	—	Vcc	230	I/O	I/O
51	I/O	I/O	111	I/O	I/O	171	I/O	I/O	231	I/O	I/O
52	—	GND	112	—	Vcc	172	I/O	I/O	232	—	GND
53	I/O	I/O	113	I/O	I/O	173	I/O	I/O	233	I/O	I/O
54	I/O	I/O	114	I/O	I/O	174	I/O	I/O	234	I/O	I/O
55	I/O	I/O	115	I/O	I/O	175	I/O	I/O	235	I/O	I/O
56	I/O	I/O	116	I/O	I/O	176	—	GND	236	I/O	RS, I/O
57	—	Vcc	117	I/O	I/O	177	I	TDI	237	I/O	I/O
58	I	TMS	118	I/O	I/O	178	I	CCE	238	I/O	WS, I/O
59	O	TRST	119	I/O	I/O	179	I	DCLK	239	I/O	CS, I/O
60	O	STATUS	120	I/O	I/O	180	I/O	DATA0, I/O	240	I/O	CS, I/O

INPUTS

CE	: CHIP ENABLE
CLKUSR	: OPTIONAL USER-SUPPLIED CLOCK
CONFIG	: CONFIGURATION CONTROL
CS, CS	: CHIP SELECT
DCLK	: CLOCK
DEV CLR	: CLEAR ON DEVICE
DEV OE	: OUTPUT ENABLE ON DEVICE
IN	: IN
MSEL0, MSEL1	: 2-BIT CONFIGURATION
RS	: READ STROBE
TCK	: TEST CLOCK
TDI	: TEST DATA
TMS	: TEST MODE SELECT
WS	: WRITE STROBE

OUTPUTS

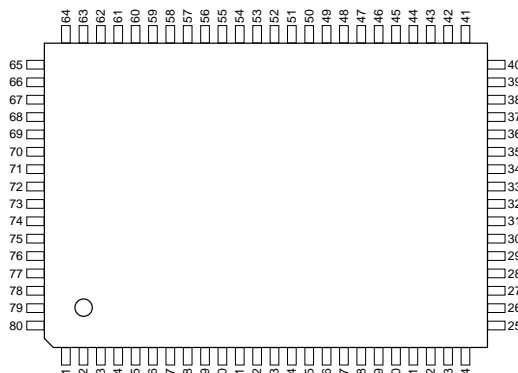
CEO	: CHIP ENABLE
CONF DONE	: STATUS
INIT DONE	: STATUS PIN
RDY/BSY	: READY
STATUS	: STATUS
TDO	: TEST DATA
TRST	: TEST RESET

INPUTS/OUTPUTS

DATA0 - DATA7	: DATA
I/O	: I/O

CXD8894Q (SONY)**MATRIX/ENCODER**

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	Q12	21	I	I7	41	I	Y2	61	I	LMT0
2	I	Q11	22	I	I6	42	I	Y1	62	I	LMT1
3	I	Q10	23	I	I5	43	O	P0	63	I	RND
4	I	Q9	24	I	I4	44	O	P1	64	I	SMPL
5	I	Q8	25	I	I3	45	O	P2	65	O	TSTO
6	I	Q7	26	I	I2	46	O	P3	66	I	TSTI
7	I	Q6	27	I	I1	47	—	GND	67	I	CKX
8	I	Q5	28	I	I0	48	O	P4	68	I	RST
9	I	Q4	29	I	Y12	49	O	P5	69	I	CS
10	I	Q3	30	I	Y11	50	O	P6	70	I/O	SDAT
11	I	Q2	31	I	Y10	51	O	P7	71	I	SADD
12	—	Vcc	32	—	GND	52	—	GND	72	I	CKD
13	—	GND	33	—	Vcc	53	—	Vcc	73	—	Vcc
14	I	Q1	34	I	Y9	54	O	P8	74	—	GND
15	I	Q0	35	I	Y8	55	O	P9	75	I	CK
16	I	I12	36	I	Y7	56	O	P10	76	I	SC
17	I	I11	37	I	Y6	57	O	P11	77	I	LALT
18	I	I10	38	I	Y5	58	—	GND	78	I	MODE0
19	I	I9	39	I	Y4	59	O	P12	79	I	MODE1
20	I	I8	40	I	Y3	60	I	OE	80	I	MODE2

INPUTS

CK	: SYSTEM CLOCK
CKD	: SERIAL INTERFACE CLOCK
CKX	: SWITCHING TIMING PULSE
CS	: CHIP SELECT (LOW : ACTIVE)
I0 - I12	: I IN (2'S COMPLEMENT 12.1 BIT)
LALT	: LINE ALTERNATE PULSE
<FOR D II PAL>	
(HIGH : EVEN, LOW : ODD)	
<FOR D II NTSC>	
(HIGH : CONTINUOUS)	
LMT0, LMT1	: P OUTPUT LIMITER MODE CONTROL
MODE0 - MODE2	: MODE SELECT

MOD2	MOD1	MOD0	MODE AND FUNCTION
0	0	0	MATRIX, $P = (Y+a) \times d + (I+b) \times e + (Q+C) \times f + g$
0	0	1	NOT USED
0	1	0	ROTATION I, $P = (Y+a) \times d + (I+b) \times e + (Q+C) \times (-f) + g$
0	1	1	ROTATION II, $P = (Y+a) \times d + (I+C) \times f + (Q+b) \times e + g$
1	0	0	NOT USED
1	0	1	NOT USED
1	1	0	ENCODER (NTSC)
1	1	1	ENCODER (PAL)

0 : LOW LEVEL
1 : HIGH LEVEL
a, b, c, ...g : REGISTER DATA FROM SERIAL DATA

OE	: P OUTPUT ENABLE CONTROL (LOW : ENABLE)
Q0 - Q12	: Q IN (2'S COMPLEMENT 12.1 BIT)
RND	: ROUNDING P OUTPUT CONTROL (HIGH : ACTIVE)
RST	: RESET PULSE (LOW : RESET SERIAL I/F)
SADD	: SERIAL ADDRESS
SC	: SUBCARRIER IN
SMPL	: SAMPLING PULSE FOR P OUTPUT (┘)
TSTI	: TEST MODE CONTROL (HIGH : TEST MODE)
Y1 - Y12	: Y IN (2'S COMPLEMENT 12.0 BIT)

OUTPUTS

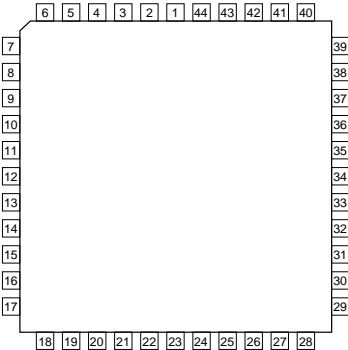
P0 - P12	: P OUT (2'S COMPLEMENT 12.1 BIT)
TSTO	: TEST

INPUT/OUTPUT

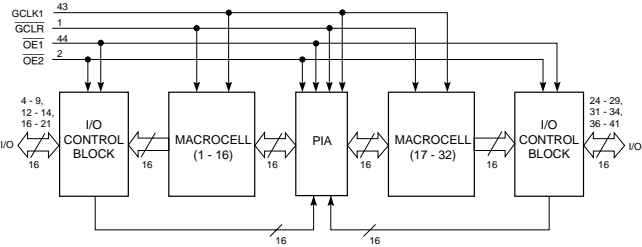
SDAT	: SERIAL DATA
------	---------------

EPM7032SLC44-10(05) (ALTERA)

PROGRAMMABLE LOGIC DEVICE
—TOP VIEW—



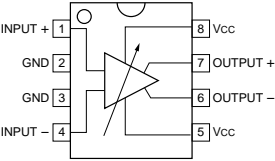
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	INPUT/GCLR	12	I/O	I/O	23	—	Vcc	34	I/O	I/O
2	I	INPUT/OE2	13	I/O	I/O (TMS)	24	I/O	I/O	35	—	Vcc
3	—	Vcc	14	I/O	I/O	25	I/O	I/O	36	I/O	I/O
4	I/O	I/O	15	—	Vcc	26	I/O	I/O	37	I/O	I/O
5	I/O	I/O	16	I/O	I/O	27	I/O	I/O	38	I/O	I/O (TDO)
6	I/O	I/O	17	I/O	I/O	28	I/O	I/O	39	I/O	I/O
7	I/O	I/O (TDI)	18	I/O	I/O	29	I/O	I/O	40	I/O	I/O
8	I/O	I/O	19	I/O	I/O	30	—	GND	41	I/O	I/O
9	I/O	I/O	20	I/O	I/O	31	I/O	I/O	42	—	GND
10	—	GND	21	I/O	I/O	32	I/O	I/O (TCK)	43	I	INPUT/GCLK1
11	—	Vcc	22	—	GND	33	I/O	I/O	44	I	INPUT/OE1



*ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMMING

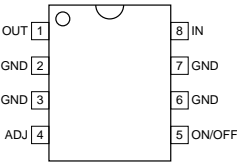
IVA-14208-TR1 (HP)

2.5GHz VARIABLE GAIN AMPLIFIER
—TOP VIEW—



LM2931CMX (NS)

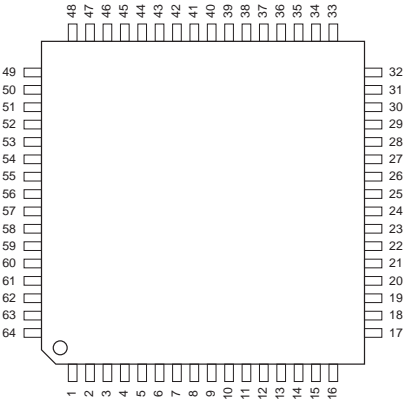
LOW DROPOUT REGULATOR
—TOP VIEW—



ADJ : ADJUSTABLE OUTPUT VOLTAGE

ICS1892Y (ICS)

10BASE-T/100BASE-TX PHYSICAL-LAYER DEVICE
—TOP VIEW—



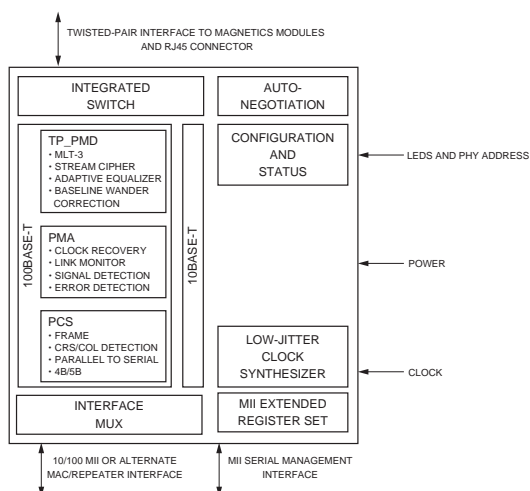
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	NOD/REP	17	—	GND	33	I	RXD2	49	O	COL
2	I/O	10/100SEL	18	—	Vcc	34	I	RXD1	50	O	CRS
3	I	10TCSR	19	I	MI/ISI	35	I	RXD0	51	—	GND
4	I	100TCSR	20	—	NC	36	O	RXDV	52	O	REF_OUT
5	O	TP_TX+	21	O	LSTA	37	I	RXCLK	53	I	REF_IN
6	O	TP_TX-	22	I	RESET	38	O	RXER	54	—	Vcc
7	—	GND	23	I	HW/SW	39	I	RXTRI	55	—	GND
8	—	Vcc	24	I/O	DPXSEL	40	—	GND	56	—	Vcc
9	I	TPTRI	25	—	Vcc	41	—	Vcc	57	—	Vcc
10	I	TP_RX+	26	—	NC	42	I	TXER	58	I/O	P0AC
11	I	TP_RX-	27	O	LOCK	43	I	TXCLK	59	I/O	P1CL
12	—	NC	28	I	10/LP	44	I	TXEN	60	I/O	P2LI
13	—	NC	29	—	GND	45	I	TXD0	61	I/O	P3TD
14	—	NC	30	I/O	MDIO	46	I	TXD1	62	I/O	P4RD
15	—	NC	31	I	MDC	47	I	TXD2	63	—	GND
16	—	Vcc	32	I	RXD3	48	I	TXD3	64	I/O	ANSEL

- INPUTS**
- T0/LP : 10 MHz SERIAL/LINK PULSE
 - 10TCSR : 10 MHz TRANSMIT CURRENT SET RESISTOR
 - 100TCSR : 100 MHz TRANSMIT CURRENT SET RESISTOR
 - HW/SW : HARDWARE/SOFTWARE SELECT
 - MDC : MANAGEMENT DATA CLOCK
 - MI/ISI : MEDIA INDEPENDENT INTERFACE/STREAM INTERFACE SELECT
 - NOD/REP : NODE/REPEATER SELECT
 - REF_IN : REFERENCE FREQUENCY
 - RESET : SYSTEM RESET
 - RXCLK : RECEIVE CLOCK
 - RXD0 - RXD3 : RECEIVE DATA 0 - 3
 - RXTRI : RECEIVE INTERFACE 3-STATE
 - TP_RX+ : TWISTED-PAIR RECEIVE (DATA) POSITIVE
 - TP_RX- : TWISTED-PAIR RECEIVE (DATA) NEGATIVE
 - TPTRI : TWISTED-PAIR 3-STATE
 - TXCLK : TRANSMIT CLOCK
 - TXD0 - TXD3 : TRANSMIT DATA 0 - 3
 - TXEN : TRANSMIT ENABLE
 - TXER : TRANSMIT ERROR

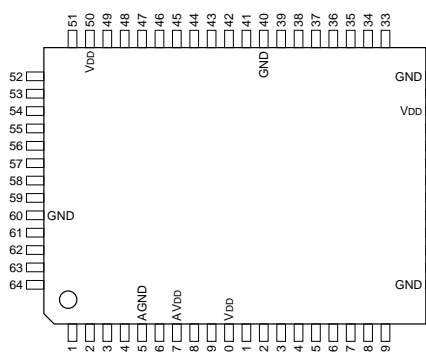
- OUTPUTS**
- COL : COLLISION
 - CRS : CARRIER SENSE
 - LOCK : LOCK
 - LSTA : LINK STATUS
 - REF_OUT : REFERENCE FREQUENCY
 - TP_TX+ : TWISTED-PAIR TRANSMIT (DATA) POSITIVE
 - TP_TX- : TWISTED-PAIR TRANSMIT (DATA) NEGATIVE

- INPUTS/OUTPUTS**
- 10/100SEL : 10BASE-T/100BASE-TX SELECT
 - ANSEL : AUTO-NEGOTIATION SELECT
 - DPXSEL : HALF-DUPLEX/FULL-DUPLEX SELECT
 - MDIO : MANAGEMENT DATA
 - P0AC : ADDRESS BIT0/ACTIVITY LED
 - P1CL : ADDRESS BIT1/COLLISION LED
 - P2LI : ADDRESS BIT2/LINK INTEGRITY LED
 - P3TD : ADDRESS BIT3/TRANSMIT DATA LED
 - P4RD : ADDRESS BIT4/RECEIVE DATA LED
 - RXDV : RECEIVE DATA VALID
 - RXER : RECEIVE ERROR

- OTHERS**
- NC : NO CONNECTION



MB90091A-120 (FUJITSU)

C-MOS ON SCREEN DISPLAY CONTROLLER
—TOP VIEW—

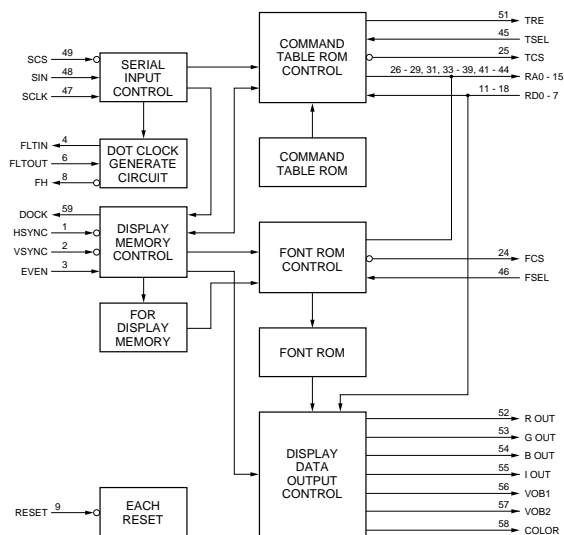
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	HSYNC	17	I	RD6	33	O	RA5	49	I	SCS
2	I	VSYNC	18	I	RD7	34	O	RA6	50	—	VDD
3	I	EVEN	19	I	TEST	35	O	RA7	51	O	TRE
4	O	FLTIN	20	—	GND	36	O	RA8	52	O	R OUT
5	—	AGND	21	O	TA16	37	O	RA9	53	O	G OUT
6	I	FLTOUT	22	O	TA17	38	O	RA10	54	O	B OUT
7	—	AVDD	23	O	TA18	39	O	RA11	55	O	I OUT
8	O	FH	24	O	FCS	40	—	GND	56	O	VOB1
9	I	RESET	25	O	TCS	41	O	RA12	57	O	VOB2
10	—	VDD	26	O	RA0	42	O	RA13	58	O	COLOR
11	I	RD0	27	O	RA1	43	O	RA14	59	O	DOCK
12	I	RD1	28	O	RA2	44	O	RA15	60	—	GND
13	I	RD2	29	O	RA3	45	I	TSEL	61	I	TESTCK
14	I	RD3	30	—	VDD	46	I	FSEL	62	I	TESTSW
15	I	RD4	31	O	RA4	47	I	SCLK	63	I	HBLNK
16	I	RD5	32	—	GND	48	I	SIN	64	I	VBLNK

INPUTS

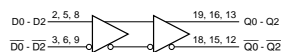
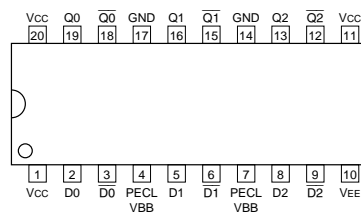
EVEN	; ODD/EVEN FIELD CONTROL (H = EVEN, L = ODD)
FLTOUT	; INTERNAL VCO VOLTAGE
FSEL	; FONT ROM INT/EXT SELECT
HBLNK	; HORIZONTAL BLANKING
HSYNC	; HORIZONTAL SYNC
RD0 - RD7	; EXTERNAL ROM DATA
RESET	; SYSTEM RESET
SCLK	; SERIAL SHIFT CLOCK
SCS	; CHIP SELECT
SIN	; SERIAL DATA
TEST	; TEST SIGNAL
TESTCK	; TEST SIGNAL
TESTSW	; TEST SIGNAL
TSEL	; COMMAND TABLE ROM ADDRESS CONTROL
VBLNK	; VERTICAL BLANKING
VSYNC	; VERTICAL SYNC

OUTPUTS

BOUT	; B OUTPUT
COLOR	; COLOR/BW SELECT
DOCK	; DOT CLOCK
FCS	; EXTERNAL FONT ROM CHIP SELECT
FH	; HORIZONTAL PULSE
FLTIN	; PHASE COMPARED SIGNAL
GOUT	; G OUTPUT
IOUT	; I OUTPUT
RA0 - RA15	; EXTERNAL ROM ADDRESSES
ROUT	; R OUTPUT
TA16 - TA18	; TEST SIGNALS
TCS	; EXTERNAL COMMAND TABLE ROM CHIP SELECT
TRE	; INTERNAL OPERATION STATUS
VOB1	; COLOR SIGNAL OUTPUT PERIOD
VOB2	; SPECIFIED CHARACTER OUTPUT PERIOD



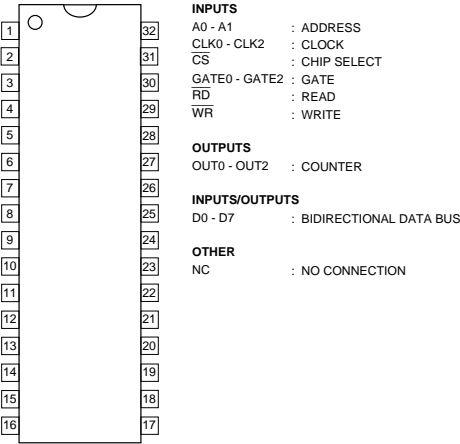
MC100LVEL91DWR2 (MOTOROLA)

TRIPLE PECL TO ECL TRANSLATOR
—TOP VIEW—

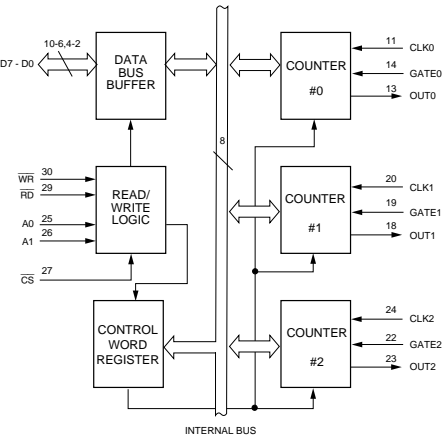
MSM82C54-2GS-K (OKI)

PROGRAMMABLE INTERVAL TIMER

—TOP VIEW—



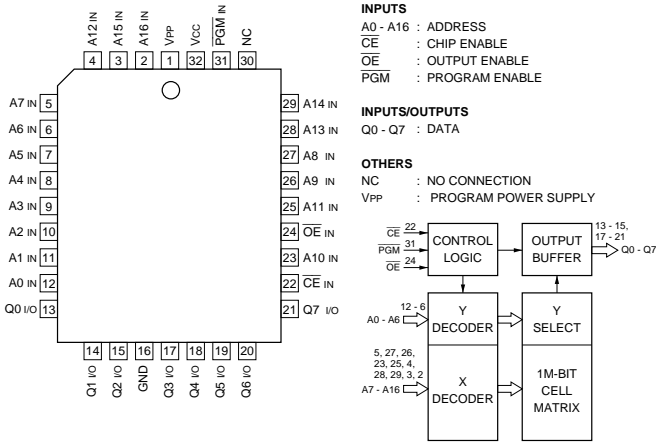
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	—	NC	17	—	NC
2	I/O	D7	18	O	OUT1
3	I/O	D6	19	I	GATE1
4	I/O	D5	20	I	CLK1
5	—	NC	21	—	NC
6	I/O	D4	22	I	GATE2
7	I/O	D3	23	O	OUT2
8	I/O	D2	24	I	CLK2
9	I/O	D1	25	I	A0
10	I/O	D0	26	I	A1
11	I	CLK0	27	I	CS
12	—	NC	28	—	NC
13	O	OUT0	29	I	RD
14	I	GATE0	30	I	WR
15	—	GND	31	—	Vcc
16	—	NC	32	—	NC



MX27C1000QC-70 (MACRONIX)

1M (128 K × 8)-BIT EPROM

—TOP VIEW—



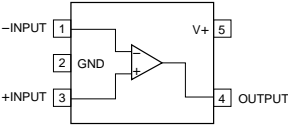
MODE	TERMINAL	CE	OE	PGM	A0	A9	Vpp	OUTPUT
READ		0	0	x	x	x	Vcc	D OUT
OUTPUT DISABLE		0	1	x	x	x	Vcc	HI-Z
STANDBY (TTL)		1	x	x	x	x	Vcc	HI-Z
STANDBY (CMOS)		Vcc±0.3 V	x	x	x	x	Vcc	HI-Z
PROGRAM		0	1	0	x	x	Vpp	D IN
PROGRAM VERIFY		0	0	1	x	x	Vpp	D OUT
PROGRAM INHIBIT		1	x	x	x	x	Vpp	HI-Z

0 : LOW LEVEL x : DON'T CARE
1 : HIGH LEVEL HI-Z : HIGH IMPEDANCE

NJM2406F (JRC)
NJM2406F-TE2

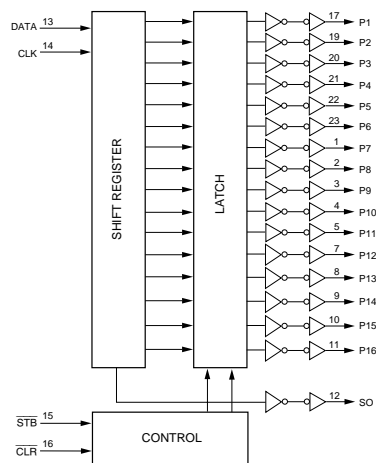
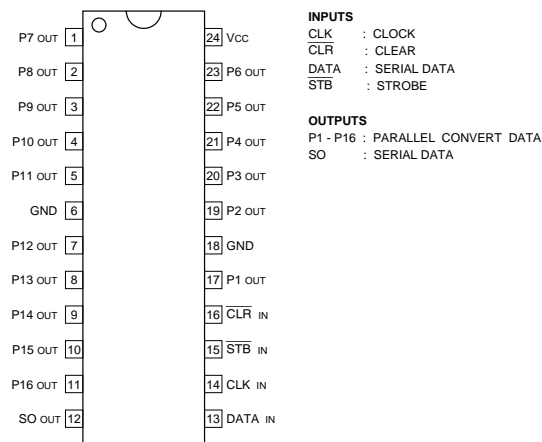
SINGLE COMPARATOR

—TOP VIEW—



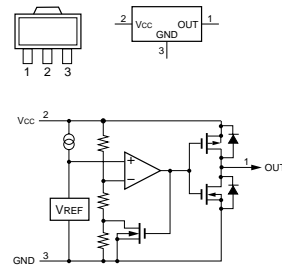
NJU3716M-T2 (JRC)
NJU3716M-TE2 (JRC)

16-BIT SERIAL PARALLEL CONVERTER
—TOP VIEW—



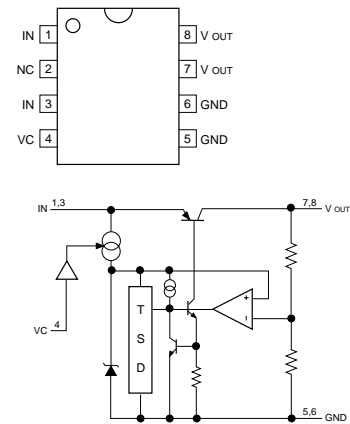
S-80845ALUP-EA9-T2 (SEIKO INSTR)

VOLTAGE DETECTOR
—TOP VIEW—



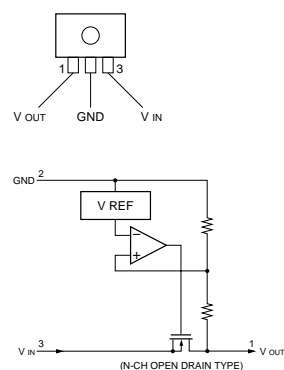
SI-3025LS-TL (SANKEN)

POSITIVE REGULATOR
—TOP VIEW—



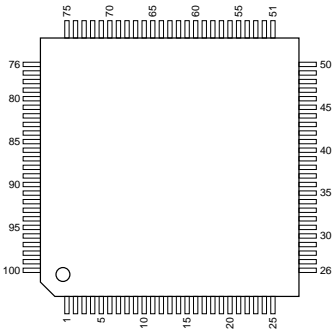
NJU7211U30(Te1) (JRC)

NEGATIVE VOLTAGE REGULATOR
—SIDE VIEW—



USS302TD-DB (LUCENT TECH)

2 - PORT PCI TO USB OPEN HCI HOST CONTROLLER
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	NC	26	—	Vcc5	51	I/O	AD23	76	I/O	PAR
2	I/O	AD2	27	—	NC	52	I/O	AD22	77	I/O	C/BEN1
3	I/O	AD1	28	—	NC	53	—	NC	78	I/O	AD15
4	I/O	AD0	29	—	NC	54	—	GND	79	I/O	AD14
5	—	GND	30	O	INTA	55	I/O	AD21	80	—	GND
6	I	CLK48	31	I	RST	56	I/O	AD20	81	—	Vcc
7	—	Vcc	32	I	CLK	57	I/O	AD19	82	I/O	AD13
8	—	GND	33	—	GND	58	I/O	AD18	83	I/O	AD12
9	I/O	PRT1PWR1	34	—	Vcc	59	—	GND	84	I/O	AD11
10	I	PWRFLT1	35	I	GNT	60	—	Vcc	85	—	GND
11	I	PWROK1	36	O	REQ	61	I/O	AD17	86	I/O	AD10
12	—	VccT	37	I/O	AD31	62	I/O	AD16	87	I/O	AD9
13	I/O	DPLS1	38	I/O	AD30	63	I/O	C/BEN2	88	I/O	AD8
14	I/O	DMNS1	39	I/O	AD29	64	I/O	FRAME	89	I/O	C/BEN0
15	—	GNDT	40	—	GND	65	—	Vcc	90	—	GND
16	—	GNDT	41	—	Vcc	66	—	GND	91	—	VIO
17	—	VccT	42	I/O	AD28	67	I/O	IRDY	92	—	Vcc
18	I/O	DPLS2	43	I/O	AD27	68	I/O	TRDY	93	I/O	AD7
19	I/O	DMNS2	44	I/O	AD26	69	I/O	DEVSEL	94	I/O	AD6
20	—	GND	45	I/O	AD25	70	I/O	STOP	95	I/O	AD5
21	I	TEST0	46	—	Vcc	71	I/O	PERR	96	—	GND
22	I	PWROK2	47	—	GND	72	—	GND	97	—	NC
23	I	PWRFLT2	48	I/O	AD24	73	—	NC	98	—	Vcc
24	I/O	PRT1PWR2	49	I/O	C/BEN3	74	—	Vcc	99	I/O	AD4
25	I	TEST1	50	I/O	IDSEL	75	O	SERR	100	I/O	AD3

- INPUTS

CLK

CLK48

GNT

PWRFLT1

PWRFLT2

PWROK1

PWROK2

RST

TEST0 - TEST1

: PCL CLOCK

: USB CLOCK(48MHz)

: PCI GRANT SIGNAL

: PORT 1 POWER FAULT

: PORT 2 POWER FAULT

: PORT 1 POWER OK

: PORT 2 POWER OK

: PCI RESET

: TEST
- OUTPUTS

INTA

REQ

SERR

: PCI INTERRUPT

: PCI REQUEST SIGNAL

: PCI SYSTEM ERROR
- INPUTS/OUTPUTS

AD0 - AD31

C/BEN0 - C/BEN3

DEVSEL

DMNS1

DMNS2

DPLS1

DPLS2

FRAME

ID SEL

IRDY

PAR

PERR

PRT1PWR1

PRT1PWR2

STOP

TRDY

: PCI ADDRESS/DATA BIT

: PCI COMMAND/BYTE ENABLE

: PCI DEVICE SELECT

: DIFFERENTIAL USB PORT 1 SIGNAL

: DIFFERENTIAL USB PORT 2 SIGNAL

: DIFFERENTIAL USB PORT 1 SIGNAL

: DIFFERENTIAL USB PORT 2 SIGNAL

: PCI FRAME

: PCI ID SELECT

: PCI INITIATOR READY

: PCI PARITY

: PCI PARITY ERROR

: PORT 1 POWER

: PORT 2 POWER

: PCI STOP

: PCI TARGET READY
- OTHERS

GNDT

NC

Vcc5

VccT

VIO

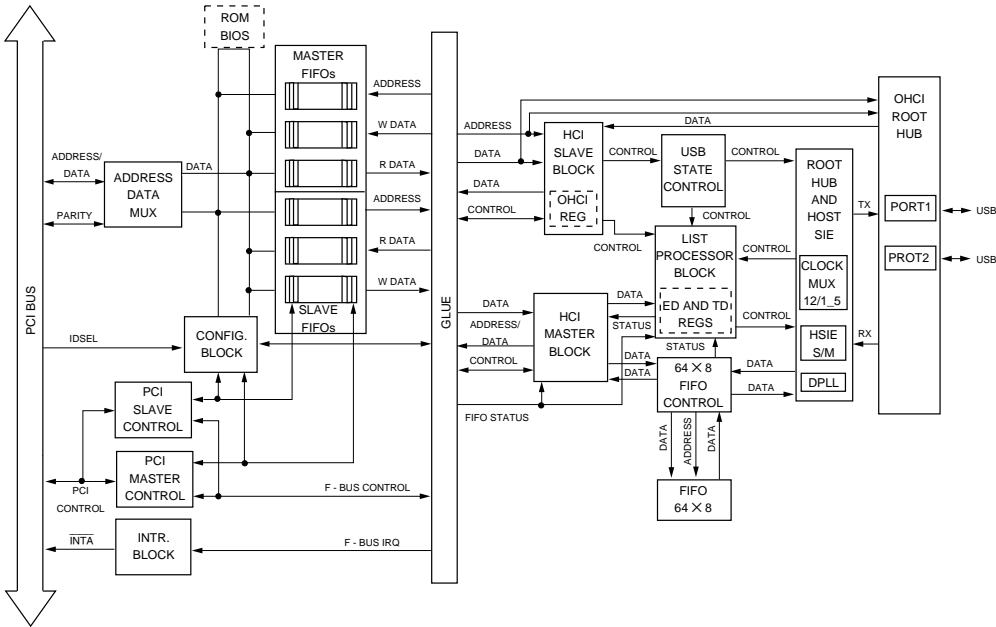
: TRANSCEIVER GROUND

: NO CONNECTION

: 5V POWER FOR 5V PCI OPERATION

: TRANSCEIVER POWER(3.3V)

: VOLTAGE I/O



Outline

BVE-700 processor unit

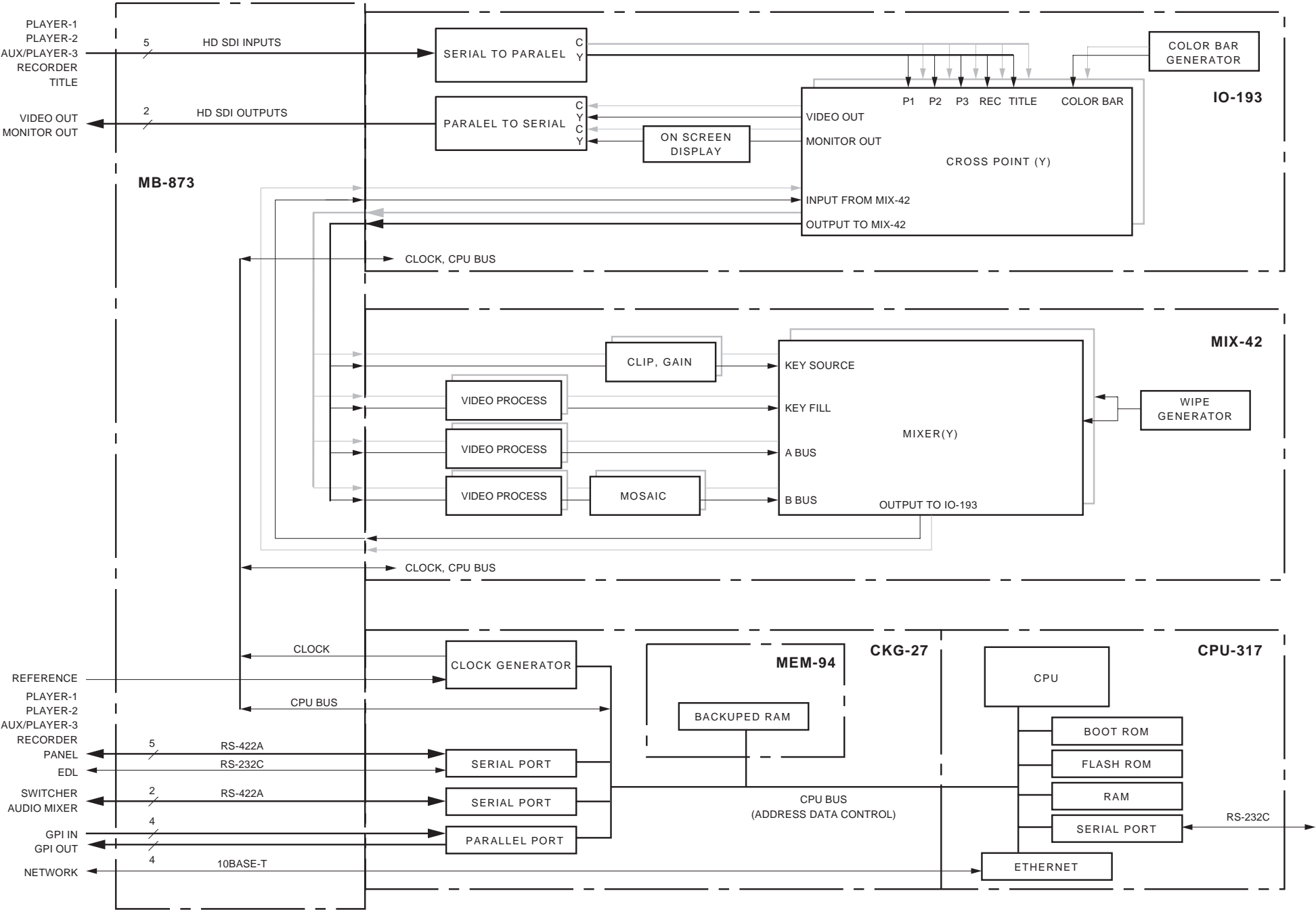
- When the main power is turned on, CPU automatically runs the boot ROM program. After copying the program stored in flash ROM into RAM, CPU runs the copied program.
This method is used because RAM has a faster access time than flash ROM.
Contents of flash ROM can be re-written by program loader using Ethernet.
- External VTRs and audio mixer are controlling using serial port on the CKG-27 board.
The synchronous clock that is used to run the switcher hardware is generated from the externally supplied sync signal by the SG circuit block on the CKG-27 board.
- Five different types of HD SDI signals can be supplied from external source to the IO-193 board.
These HD SDI input signals are converted from serial to parallel form and are then separated into luminance (Y) signal and color difference (C) signal.
Both the IO-193 board and the MIX-42 board process the luminance (Y) signal and color difference (C) signal separately. The processed signals are converted back from parallel to serial signal as a single HD SDI signal that is outputted from the IO-193 board. The IO-193 board has built-in color bar generator circuit that outputs the color bar signal.
The IO-193 board has the two output circuits. One contains the On Screen Display circuit with which VTR timecode or setup menu data can be superimposed on the video output.
The video signal that is selected by the cross-point is outputted to the MIX-42 board.
- The MIX-42 board receives the four video input signals from the IO-193 board. These four video input signals are Key Source, Key Fill, A bus and B bus signals. An output signal is generated from any of these four input video signals, and is returned to the IO-193 board.
The Key Source signal has the clip adjustment and gain adjustment functions.
The A bus signal and the B bus signal have the Color Corrector function that can adjust luminance level and can correct color tone.
The B bus signal has the mosaic function. Position and size of mosaic can be adjusted by synthesizing B bus signal with mosaic effect into A bus signal using wipe effect. The MIX-42 board contains the wipe pattern generator circuit.
- Switcher hardware is controlled by CPU that accesses the switcher through motherboard to which the CPU bus is connected to the IO-193 board and the MIX-42 board.

BVE-700 control panel unit

- The control panel unit performs the two main functions of generating key code and displaying received data from processor unit.
Key code is generated by a latch consisting of two ICs (IC303, IC304) on the key assembly and a buffer IC (IC305).
Key data is read from IC305 after setting an output from IC303 and IC304 to low. For example, when the output 1 of IC304 is set to low, all keys from ALL STOP key to FF key can be checked.
The knob operation data is obtained by reading IC201 and IC202 periodically. The dial operation data is obtained by reading IC203 periodically.
- Data indication on display is realized by sending data to the respective circuit boards from CPU on the IF-766 board in serial format.
20 ICs from IC401 on the key assembly to IC101 on the DP-309 board are connected in serial. When display data is sent from CPU, the display data is set to all of these ICs.
If all display data are indicated on display all at the same time, not only power consumption exceeds the power supply capacity but also efficiency is poor. Therefore, several ICs only are turned on and the groups of the illuminating ICs are switched one group after another. However, the ICs that become dark by the dynamic illumination method are turned on all the time as IC102. These ICs are connected to the CPU bus through which parallel data are set.
- Power to the control panel unit is supplied from processor unit through D-sub 25-pin cable connected to processor. The +12 V power that is supplied from processor unit is shifted to +5 V by DC-DC converter on the IF-766 board.
Control panel unit and processor unit are connected by RS-422A serial interface. Display data and commands are sent to control panel unit from processor unit.
From control panel unit, data regarding the pressed key or data indicating the dial operation are sent to processor unit.
From processor unit, message is sent at the timing of every video field and control panel unit receives message at the timing of every video field so that processing is executed in synchronism with the corresponding video field.

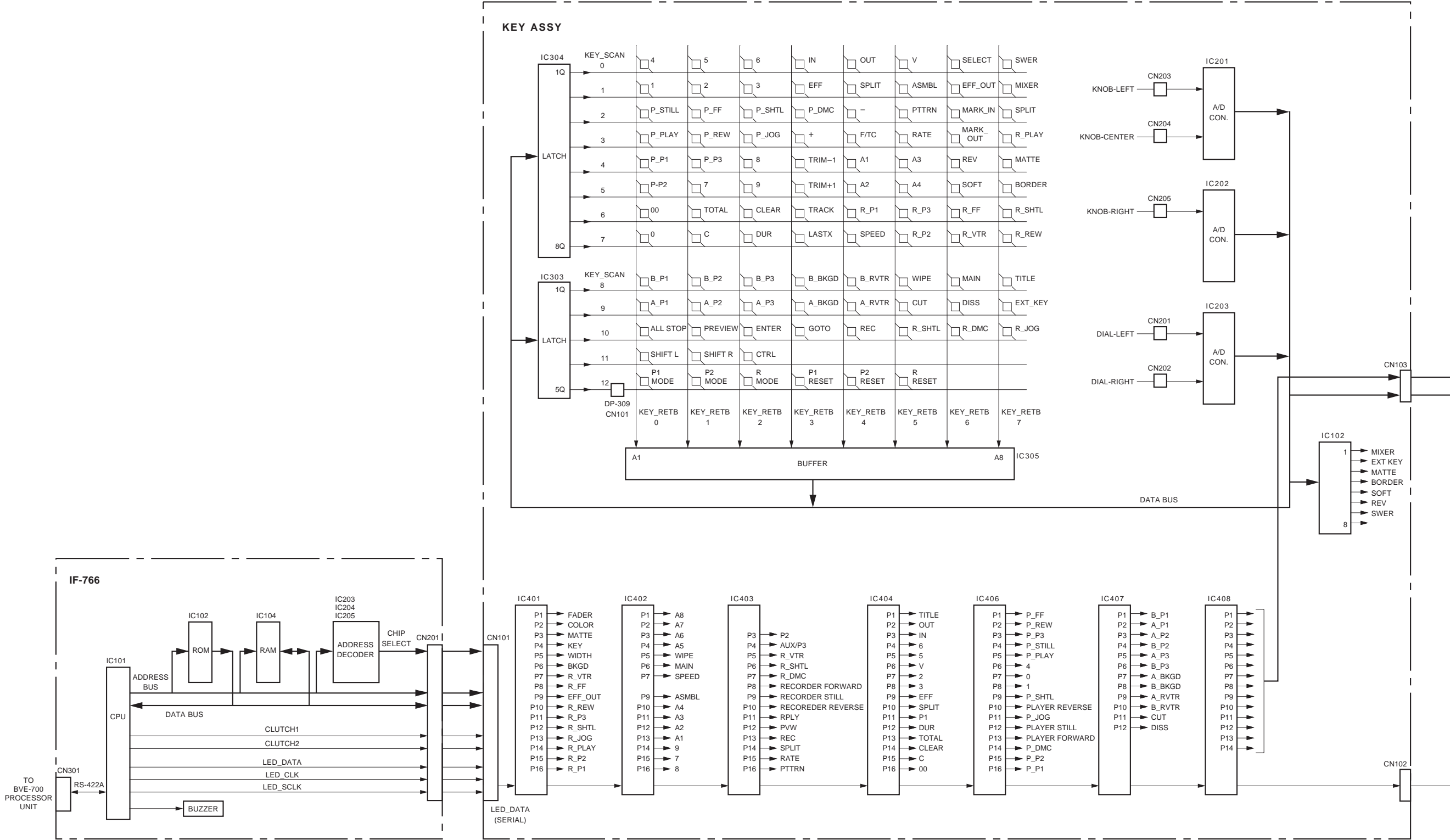
5-1. BVE-700 Block Diagrams

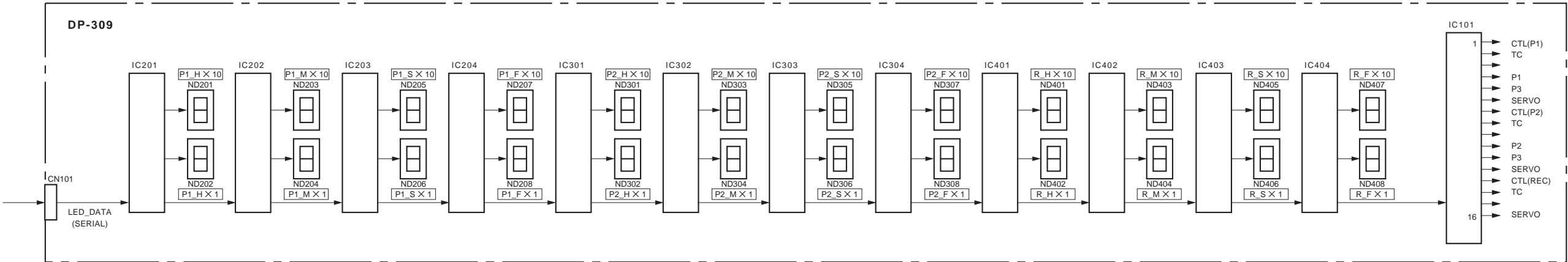
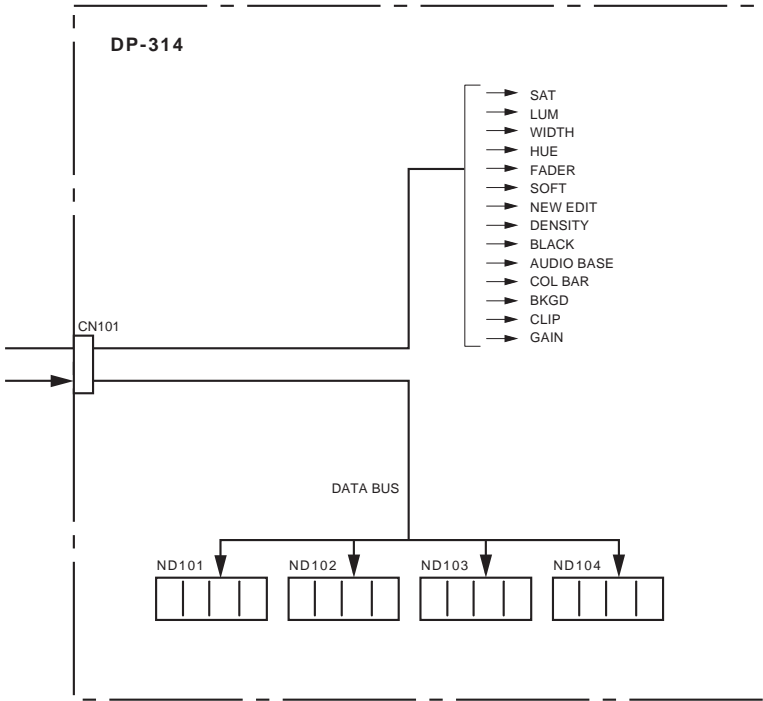
BVE-700 (SY) : S/N 10001 and Higher



Processor Unit
LOT NO. 912-

BVE-700 (SY) : S/N 10001 and Higher

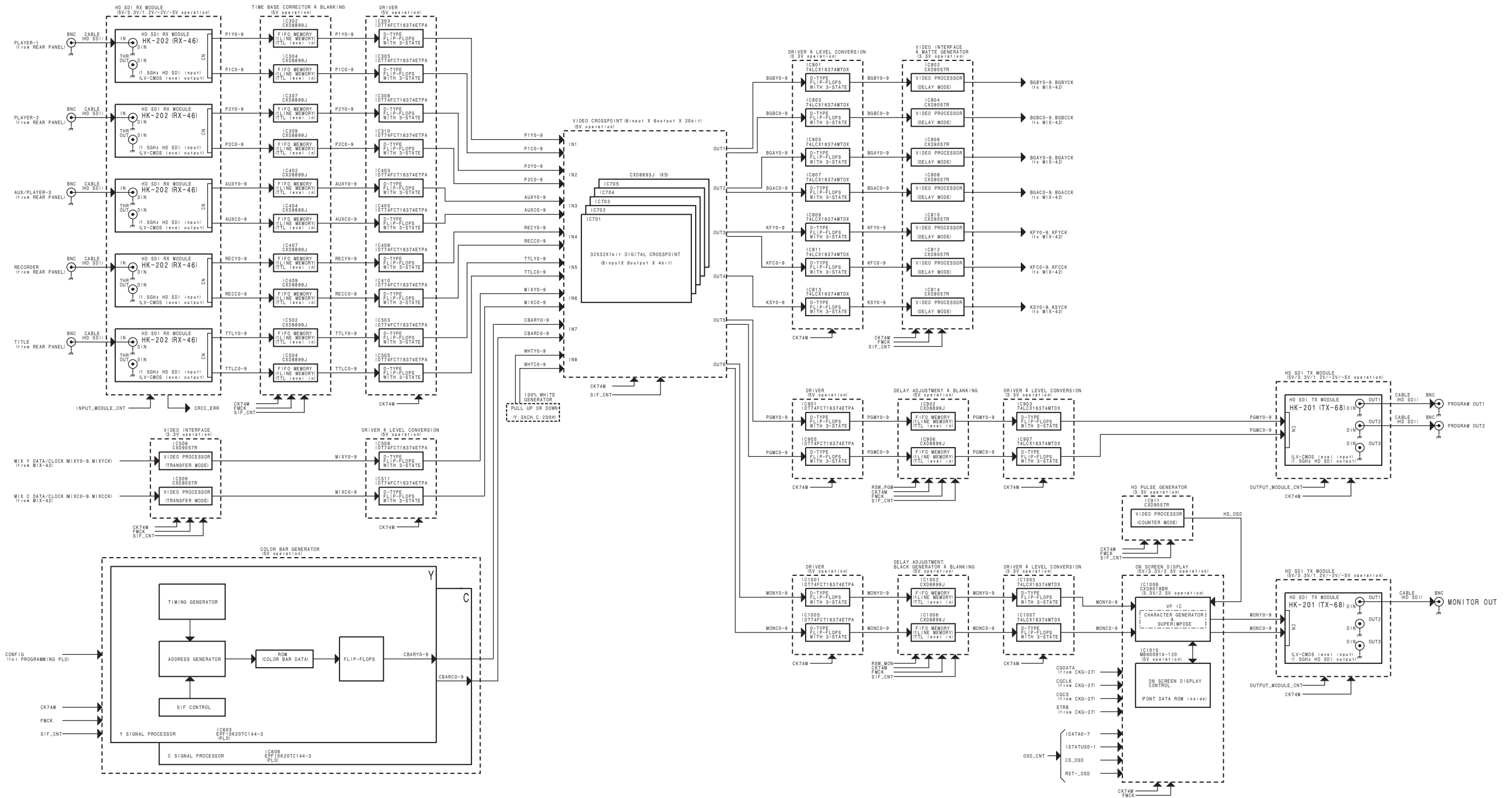


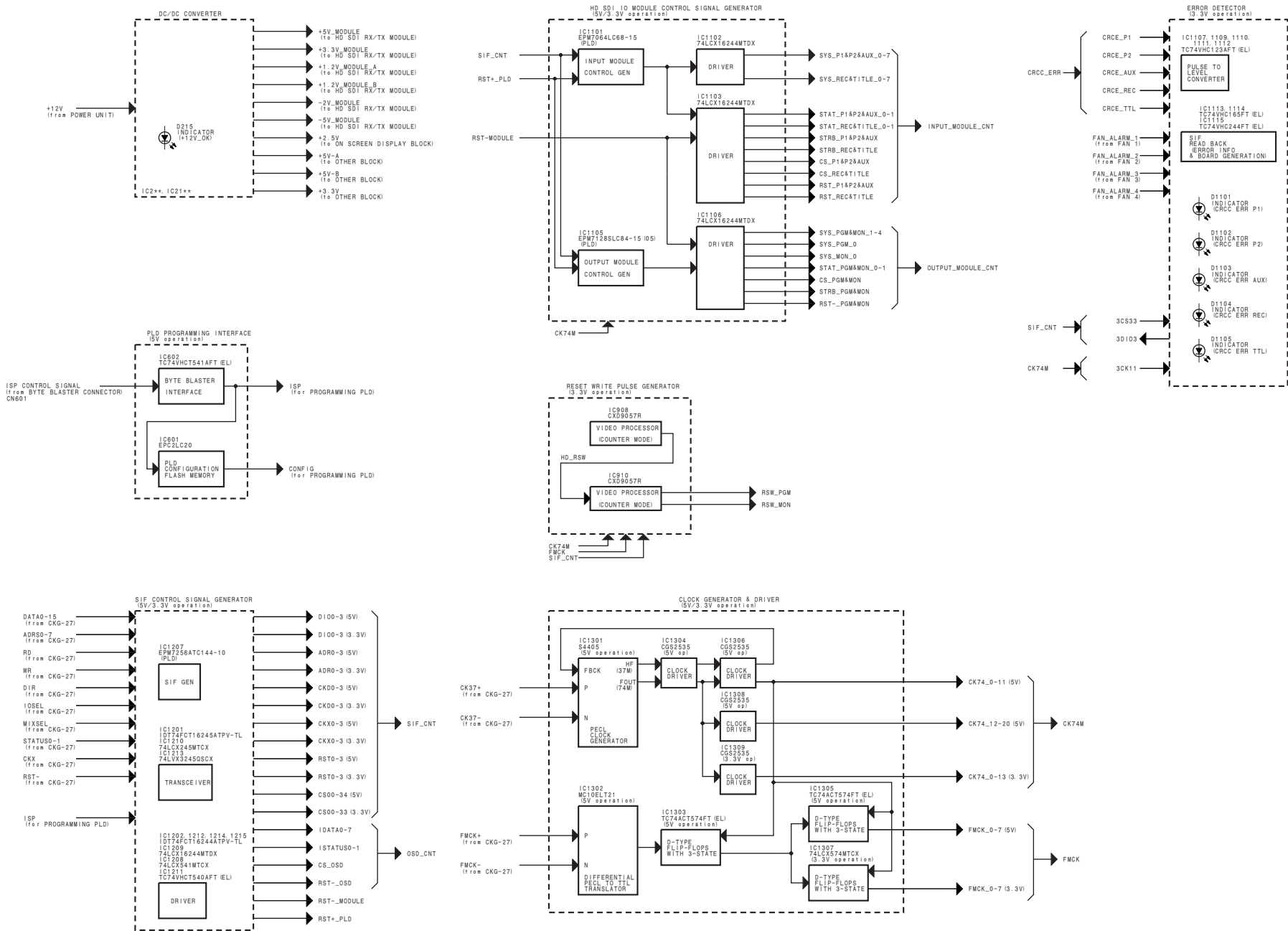


Control Panel Unit
LOT NO. 912-

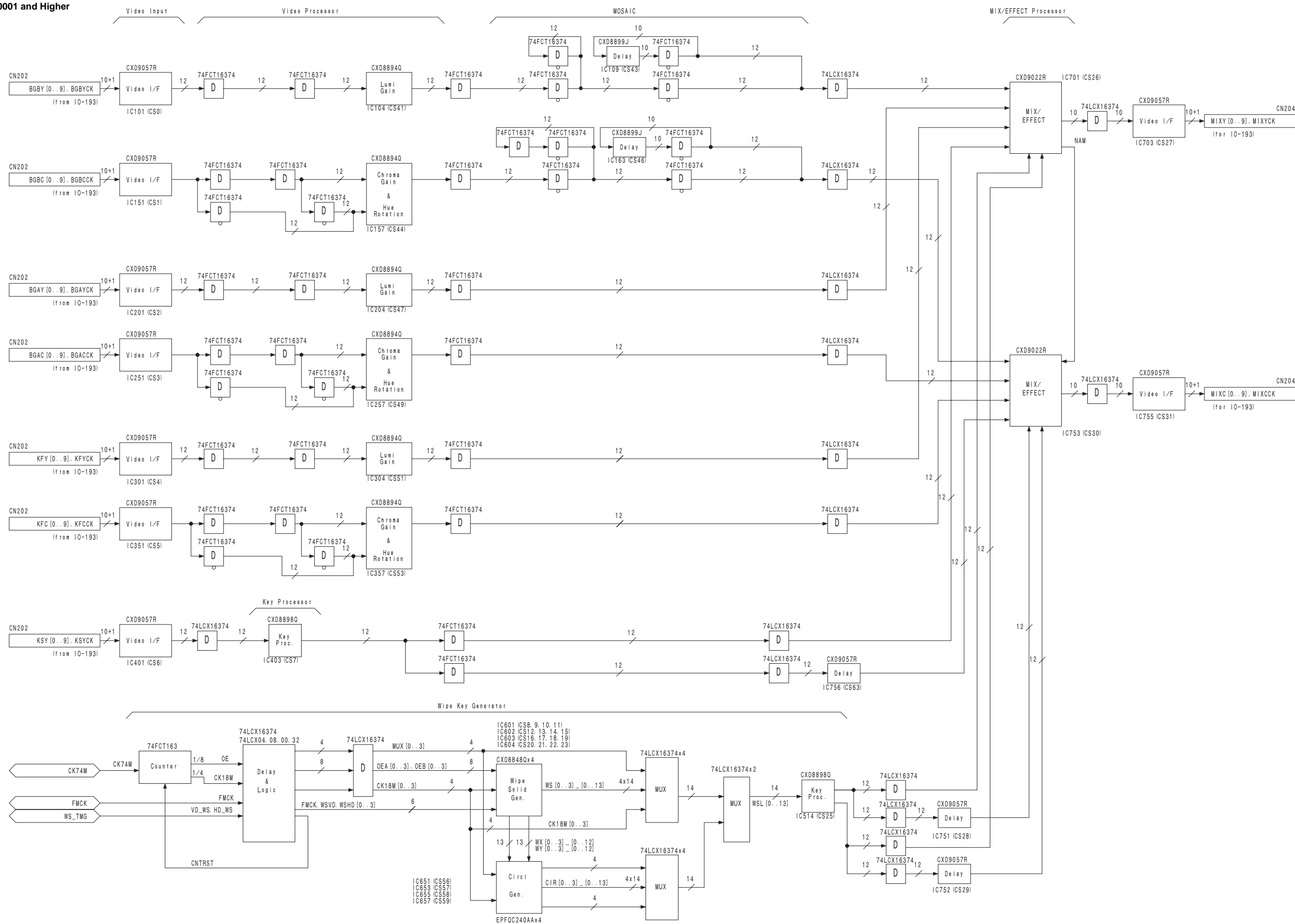
5-2. BKE-701 Block Diagrams

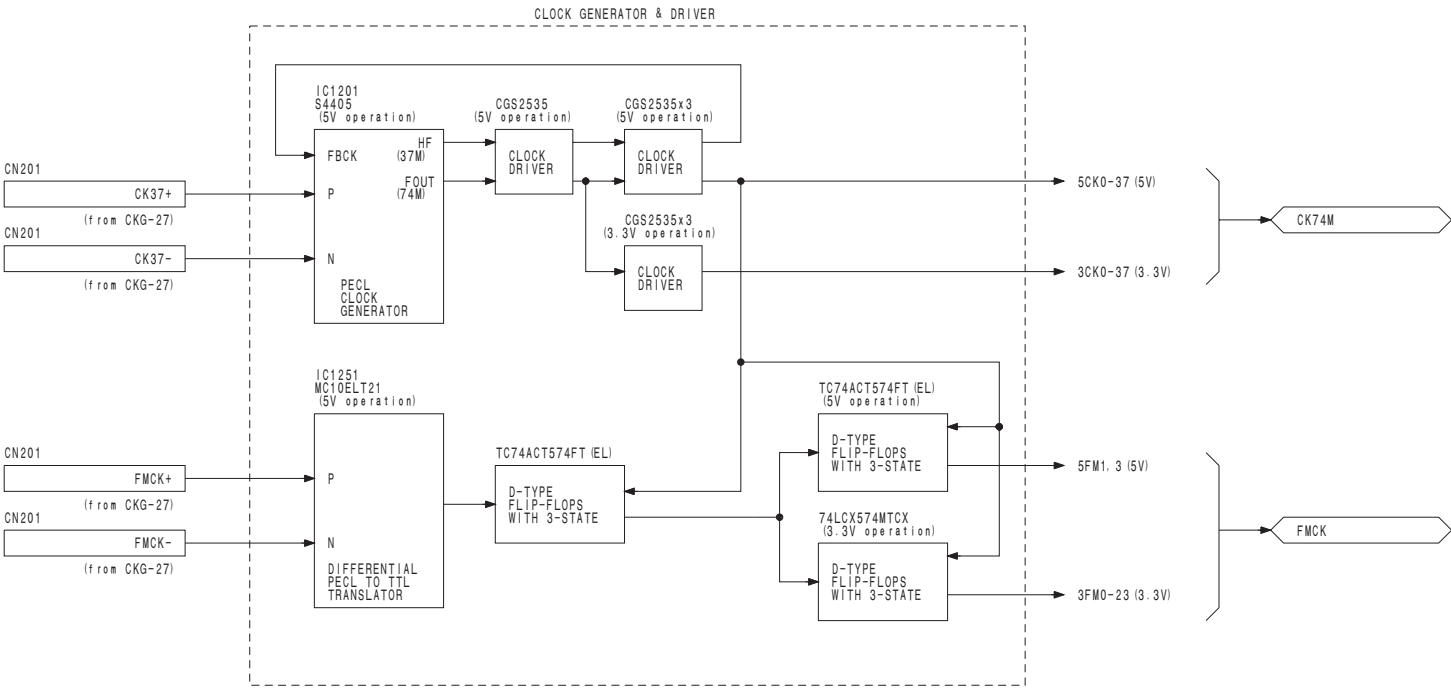
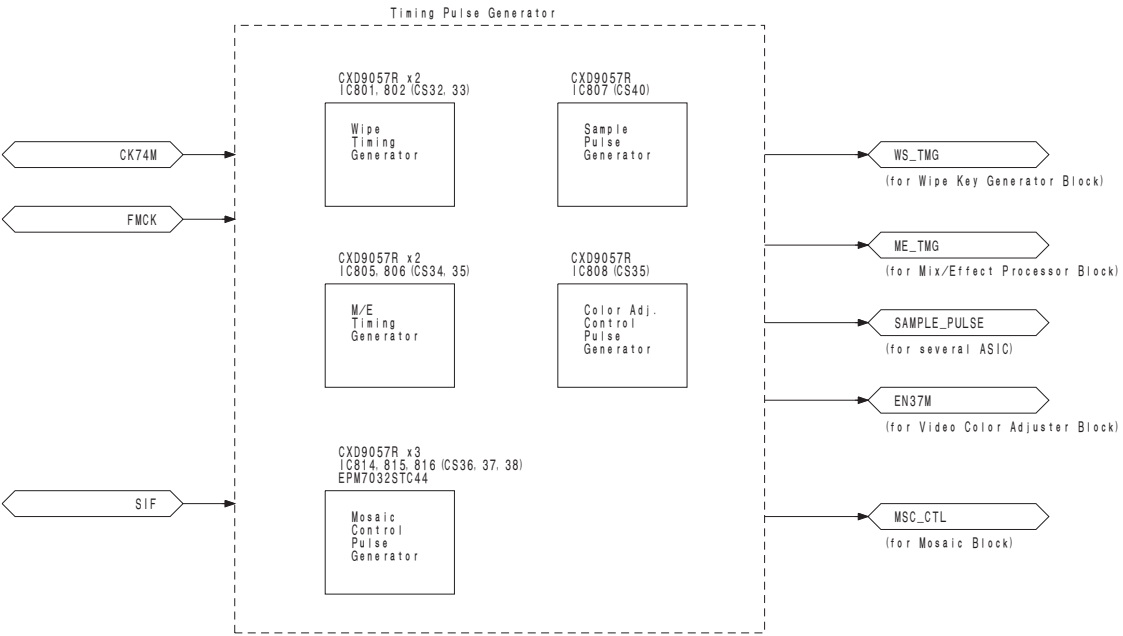
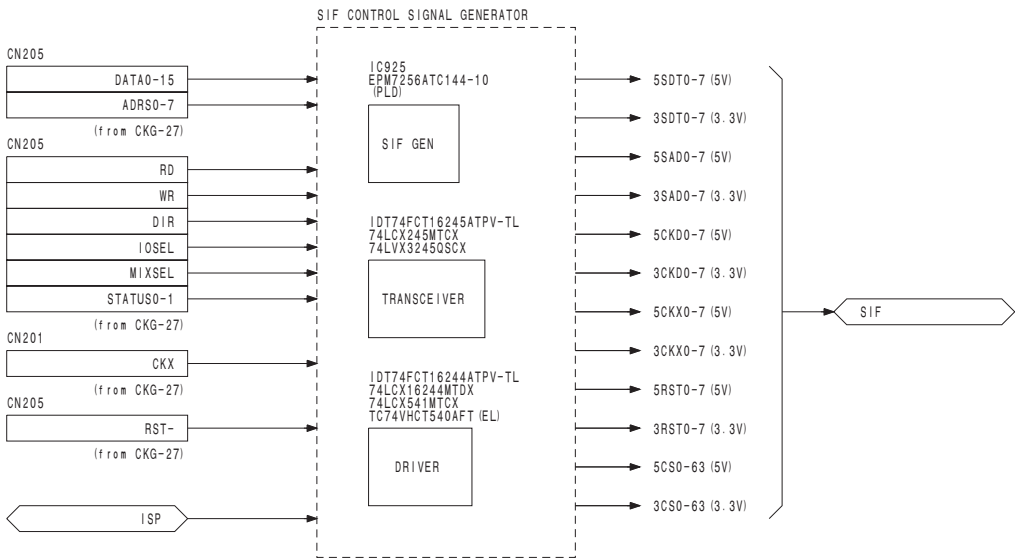
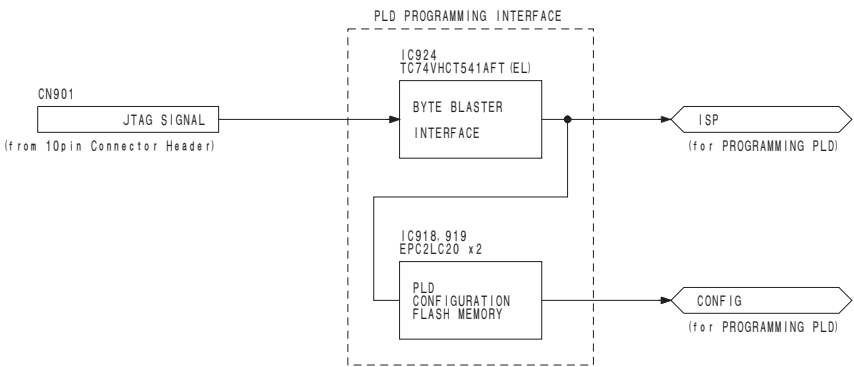
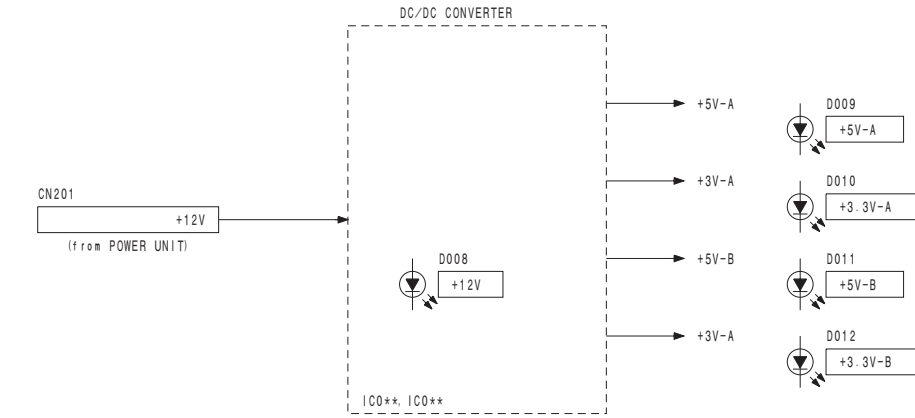
BKE-701 (SY) : S/N 10001 and Higher





BKE-701 (SY) : S/N 10001 and Higher





Section 6

Board Layouts

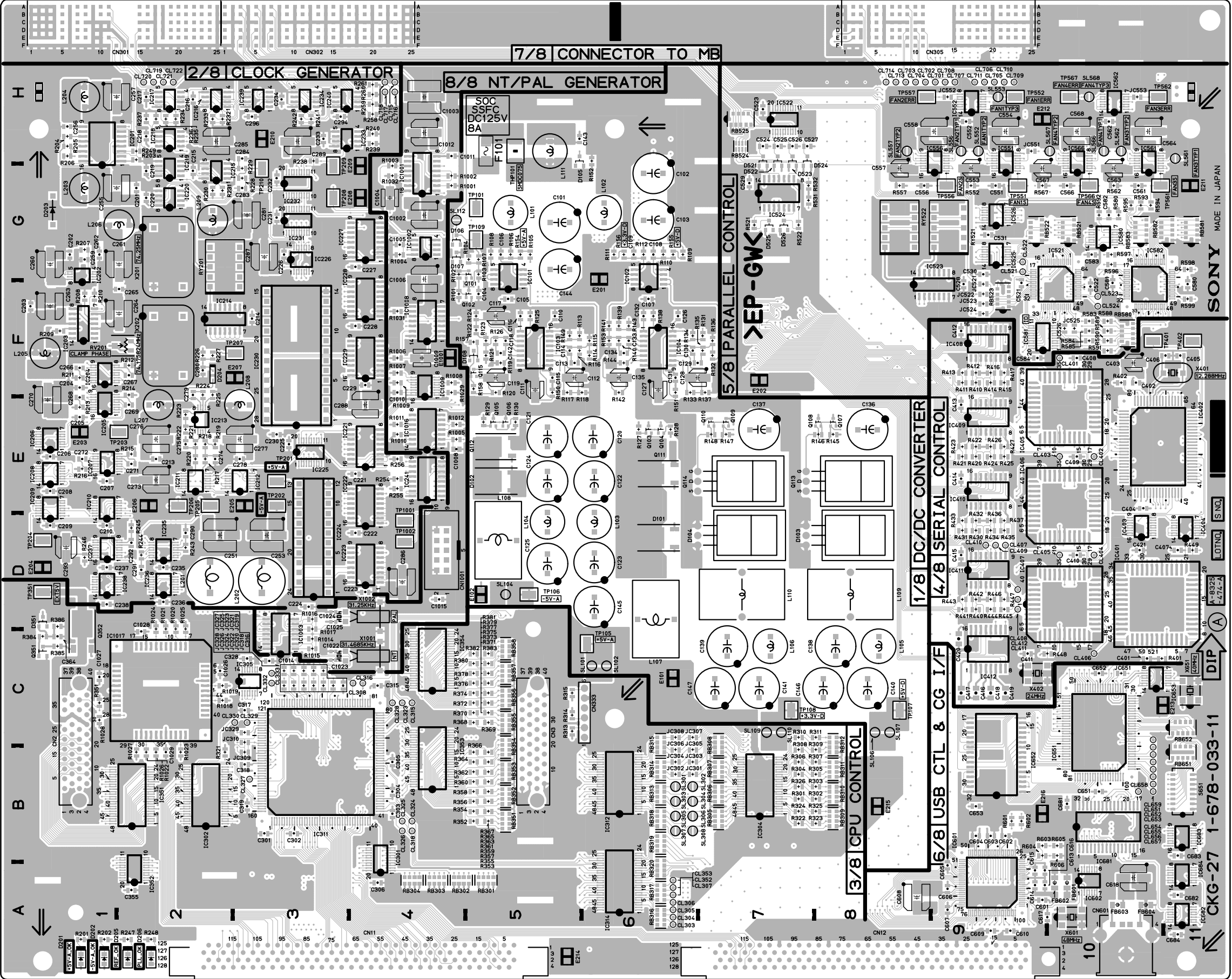
Index

BVE-700

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	CPU-317A	System Control	6-5
	HN-276	Fan Connector	6-7
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	IF-766	Interface	6-14

BKE-701

Board Name		Function	Page
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BVE-700 (SY) : S/N 10001 and Higher

CKG-27 -A SIDE-
SUFFIX: -11

CPU-317A (1-675-922-11)

*:B SIDE

C1	*L3	C95	*E2	C188	*C4	D1	H5	R8	A4	R116	C2	RB57	*H2
C2	*L2	C96	*F2	C189	D2	D2	H5	R9	D3	R117	B2	RB58	*H4
C3	*L2	C97	*E2	C190	*C1	D3	H5	R10	D3	R118	C2	RB59	*H4
C4	*K2	C98	*F2	C191	*E2	D4	H5	R11	*L1	R119	B2	RB60	*D2
C5	*L2	C99	*H4	C192	*C2	D5	H5	R12	*H3	R120	C2	RB61	*B3
C6	*L2	C100	*K2	C193	*B2	D6	H5	R13	*H3	R121	B2	RB62	*C3
C7	*K2	C101	*D3	C194	*B1	D7	H5	R14	*J4	R122	C2	RB63	*B3
C8	*K2	C102	*E3	C195	*E2	D8	H5	R15	*H2	R123	B2	RB64	*C3
C9	K2	C103	*E3	C196	K5	D9	H4	R16	*K3	R124	C2	RB65	*C3
C10	*K2	C104	E5	C197	*B3	D10	H4	R17	*G2	R125	B1	RB66	*B3
C11	*K2	C105	E5	C198	*B3	D11	H4	R18	*G3	R126	C1	RB67	*D1
C12	*K2	C106	E5	C199	*B4	D12	K5	R19	*G3	R127	B1	RB68	*H5
C13	*K3	C107	*D3	C200	*C4	D13	K5	R20	*G4	R128	C1	RB69	*H5
C14	*K3	C108	*C3	C201	G1	D14	K5	R21	*G4	R129	B1	RB70	C5
C15	*K3	C109	D3	C202	G3	D15	A5	R22	*K2	R130	C1	RB71	*C5
C16	*K3	C110	*E3	C203	*B1	D16	A5	R23	*L2	R132	*L1	RB72	C5
C17	*K3	C111	*F3	C204	*B2	D18	B5	R24	*H4	R133	*J1	RB73	*C5
C18	*K3	C112	*E3	C205	*E2	D19	H4	R25	*L2	R134	*K1	RB74	*B3
C19	*K3	C113	*D4	C206	*E2	D20	H4	R26	*L2	R135	*D2	RB75	*C2
C20	*K3	C114	*D4	C207	*E2	D21	H4	R27	*L2	R136	G4	RB76	*C2
C21	*K3	C115	*E4	C208	*E2	D22	H4	R28	*L2	R137	G4	RB77	*C2
C22	*L3	C116	D5	C209	*E2	D26	J5	R29	G2	R138	F4	RB78	*C1
C23	*L3	C117	D5	C210	*E2	D27	A5	R30	*J4	R139	F4	RB80	J1
C24	*L3	C118	D5	C211	*E2	D100	B5	R31	*F4	R140	*F4	RB81	J1
C25	*L3	C119	*D4	C212	*E2	D101	B5	R32	*K1	R141	*G4	RB82	J1
C26	*L3	C120	*C4	C213	*D2			R33	*K4	R142	H1	RB83	J1
C27	*L3	C121	D4	C214	C3	E1	B2	R34	*K1	R143	*G4	RB84	H1
C28	*L2	C122	*E4	C215	*G2	E2	C4	R35	*K1	R144	*F4	RB85	G1
C29	*L2	C123	*F4	C216	G3	E3	G3	R36	*G2	R150	J5	RB86	G1
C30	L2	C124	*E4	C217	*F3	E4	L4	R37	*G4	R160	*A5	RB87	G1
C31	L2	C125	F2	C218	*G3			R38	*H2	R161	*A5	RB88	H1
C32	*H3	C127	*K1	C219	*G3	FB1	*G4	R39	*G4	R163	*B5	RB89	H1
C33	*J3	C128	*H3	C220	*E2	FB2	*G4	R40	*K4	R164	*B1	RB90	H1
C34	*H2	C129	*K4	C221	*E2	FB3	*G4	R41	*J4	R165	*A5	RB91	*G2
C35	*J2	C130	*J4	C222	*E2	FB4	*G4	R42	*B3			RB92	K1
C36	*J2	C131	*L1	C223	*E2			R43	*G3	RB1	*L3	RB93	K1
C37	*J2	C132	*B2	C224	*G3	IC1	J3	R44	*G3	RB2	*L3	RB94	*G2
C38	*J2	C133	*G2	C225	*D2	IC2	L2	R45	D2	RB3	*K3	RB95	*G2
C39	*J2	C134	*H2	C226	*D1	IC3	J4	R46	*G2	RB4	*K3	RB101	J1
C40	*H3	C135	*H2	C227	*D2	IC5	F3	R47	*H4	RB5	*L2	RB102	J1
C41	*H3	C136	*G2	C228	*E1	IC6	K4	R48	*H3	RB6	*L2	RB103	J1
C42	*H3	C137	*G2	C229	*E2	IC7	K5	R49	*C3	RB7	*K2	RB104	J1
C43	*H2	C138	*H2	C230	*E1	IC8	L4	R50	C3	RB8	*K2	RB105	H1
C44	*G4	C139	*G2	C231	*E2	IC9	K1	R51	*L3	RB9	*L2	RB106	G1
C45	*H2	C140	*G2	C232	*E1	IC10	K4	R52	*D2	RB10	*L3	RB107	G1
C46	*J2	C141	*G2	C233	*E2	IC11	L5	R53	*K4	RB11	*J4	RB108	G1
C47	*J2	C142	*G1	C234	*E1	IC12	K2	R54	*G3	RB12	*L2	RB109	H1
C48	*J3	C143	*B3	C235	*E2	IC13	D2	R55	*D3	RB13	K2	RB110	K1
C49	*J3	C144	*G2	C236	*E1	IC14	C4	R56	*G1	RB14	L3	RB111	H1
C50	*J3	C145	*G2	C237	*E2	IC15	K4	R57	B1	RB15	L3	RB112	H1
C51	*H3	C146	*G2	C238	*E1	IC16	G2	R58	G3	RB16	K3	RB113	K1
C52	*H3	C147	*G2	C239	*E2	IC17	E5	R59	G3	RB17	*K3	RB114	K1
C53	*J3	C148	*G2	C240	*E1	IC18	C3	R60	*G3	RB18	*L2	RB119	D2
C54	*J3	C149	*G2	C241	*D1	IC19	E3	R61	*J4	RB19	*K2	RB120	D2
C55	*J3	C150	*C2	C242	*D1	IC20	D3	R62	*J4	RB20	*K2	RB121	D1
C56	*J3	C151	*C2	C243	*D1	IC21	D5	R63	*J4	RB21	*K2	RB122	E1
C57	*K4	C152	*C2	C244	*G4	IC22	C4	R64	*K4	RB22	*G2	RB123	E1
C58	*J4	C153	*C2	C245	*G4	IC23	E4	R65	*J4	RB23	*D2	RB124	E1
C59	*J4	C154	*B2	C246	*G4	IC24	D4	R66	D2	RB24	*K4	RB125	D1
C60	*J4	C155	*B2	C247	G4	IC25	L2	R67	E2	RB25	*K4	RB126	D1
C61	*J4	C156	*B2	C248	F4	IC26	A3	R68	*C3	RB26	L4	RB127	E1
C62	*J4	C157	*D2	C249	*G4	IC27	A2	R69	*H3	RB27	L4	RB128	E1
C63	*J4	C158	*K4	C251	E2	IC28	F2	R70	*H3	RB28	*K5	RB129	E1
C64	*L4	C159	D3	C252	*K4	IC29	K4	R71	*H3	RB29	*K5	RB130	*D1
C65	*L3	C160	*B2	C253	B1	IC30	C2	R72	*H3	RB30	L4	RB131	G1
C66	*K3	C161	*C2	C256	*G4	IC32	C2	R73	*H3	RB31	L4	RB132	D2
C67	*K5	C162	*D1	C257	*G4	IC33	C2	R74	*H3	RB32	L4	RB133	B3
C68	*K5	C163	*L3	C258	*G4	IC34	B2	R75	J5	RB33	L4	RB134	B3
C69	*K4	C164	*D2	C259	G4	IC35	B2	R79	K5	RB34	L5		
C70	*K4	C165	*F2	C260	*G3	IC37	A4	R80	*K4	RB35	L5	S1	D5
C71	*J4	C166	*G3	C261	*F5	IC38	B4	R81	L3	RB36	L5	S2	E5
C72	*A3	C167	*C4	C262	*G5	IC39	C4	R82	*L3	RB37	L5	S3	J5
C73	C2	C168	*C1	C263	*D2	IC40	K5	R83	K5	RB38	*D2	S4	K5
C76	*B2	C169	A1	C264	*D2	IC41	A4	R95	K5	RB39	*H2	S5	F5
C77	*A2	C170	A1	C265	*D2	IC42	C3	R99	C2	RB40	*L4		
C78	*B4	C171	A1	C266	*B1	IC43	E2	R100	D2	RB41	*L3	SL1	G4
C79	*A4	C172	A1			IC44	D1	R101	C2	RB42	*J5		
C81	*A2	C173	*A1	CN1	D1	IC47	D3	R102	D2	RB43	*K5	T1	G4
C82	*C3	C174	*A1	CN2	H1	IC49	D3	R103	C2	RB44	*L5		
C83	*C3	C175	A1	CN8	G5	IC50	B3	R104	D2	RB45	*L3	TP1	B2
C84	*C3	C176	*D2	CN9	J5	IC57	E3	R105	C2	RB46	*L3		
C85	*B4	C177	*K4			IC58	D3	R106	D2	RB47	K4	X1	H4
C86	*B4	C178	*D2	CNT3	C5	IC400	G3	R107	C2	RB48	L4	X2	L1
C87	*B2	C179	*L3	CNT4	C5			R108	D2	RB49	K4	X3	G3
C88	*B3	C180	*L5	CNT6	C5	R1	*L2	R109	C1	RB50	E3	X5	G4
C89	*L4	C181	*L5	CNT7	C5	R2	*L2	R110	D1	RB51	E3		
C90	*L4	C182	*L4	CNT8	C5	R3	*L2	R111	C1	RB52	F3		
C91	*C3	C183	*L4			R4	*L2	R112	D1	RB53	D3		
C92	*A4	C185	*C4	COP1	J5	R5	*A2	R113	C1	RB54	E3		
C93	*L2	C186	*C4	COP2	B3	R6	*A1	R114	D1	RB55	E3		
C94	*L4	C187	*C4	COP3	J5	R7	*B1	R115	B2	RB56	*L4		



MEM-94A (1-671-776-12)

*:B SIDE

- C1

C2

C3

C4

C5

C6

C7

C8

C9

C10

C11

C12

C13

C14

C15

C16

C17

C18

C19

C20

C21

C22

C23

C24

C25

C26

C27

C28

C29

C30

C31

C32

C33

C34

C35
- C1

B1

A1

A3

*A3

*A3

*B3

*B2

*B2

*A2

*A2

*B2

*A2

*A2

*A3

*B3

B2

*B2

C2

*C2

D2

*D2

D2

*D2

B2

*B2

C2

*C2

D2

D2

*D2

D2

*D2

A1

A1

- CN2

CN3
- A2

E2

- D1

D2
- *A1

*C1

- E1

E2
- A1

D3

- IC1

IC2

IC3

IC4

IC5

IC6

IC7

IC8

IC9

IC10

IC11

IC12

IC13

IC14

IC15

IC16

IC17

IC18

IC19

IC20

IC21
- *A3

*A3

A3

A2

A2

B2

*B2

C2

*C2

C2

*C2

D2

*D2

B3

*B3

C3

*C3

C3

*C3

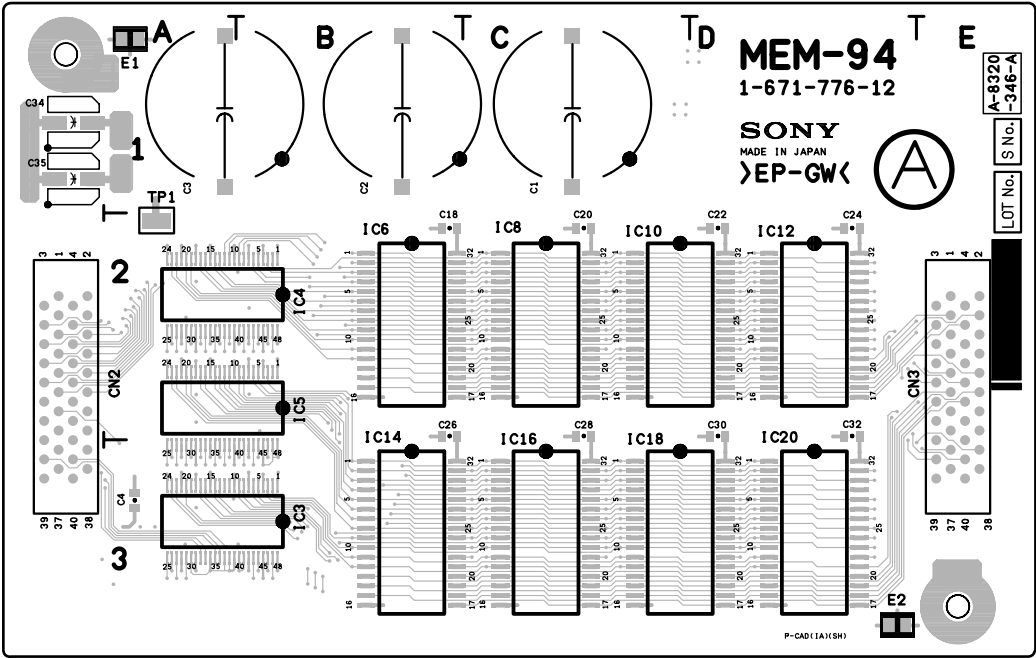
D3

*D3

- R1

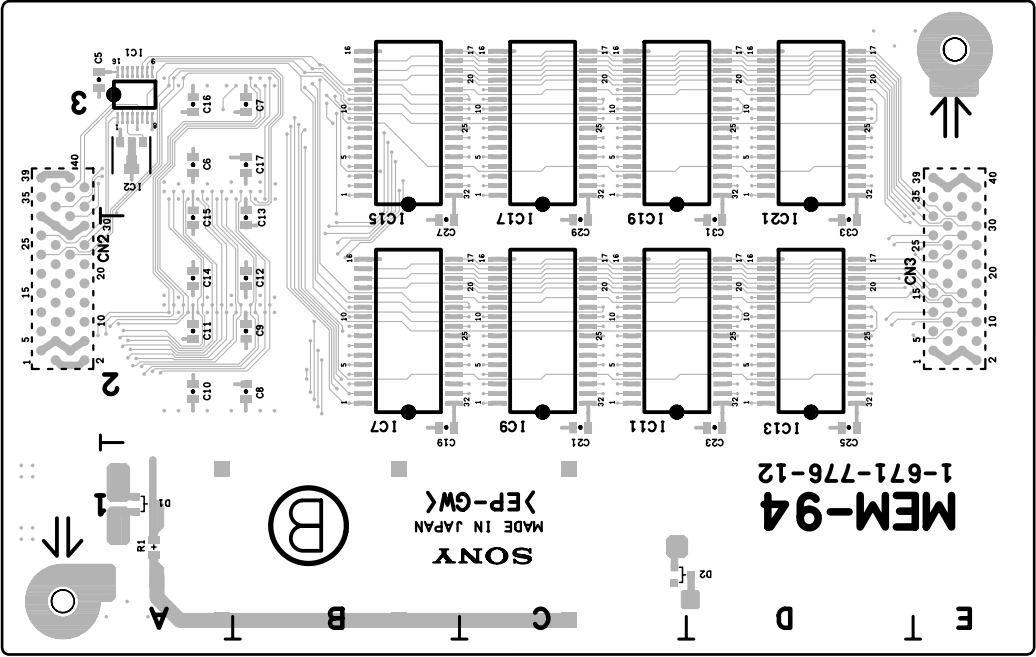
TP1
- *A1

A2



BVE-700 (SY) : S/N 10001 and Higher

MEM-94A -A SIDE-
SUFFIX: -12



MEM-94A -B SIDE-
SUFFIX: -12

MB-873 (1-678-028-12)

*:B SIDE

- CN1

CN2

CN3

CN4

CN7

CN8

CN9

CN10

CN11

CN101

CN102

CN104

CN105

CN201

CN202

CN204

CN205

CN301

CN302

CN305

CN401

CN405
- A4

B4

B4

B4

C4

*B3

*B3

*K3

C2

D1

E1

H1

J1

D2

E2

H2

J2

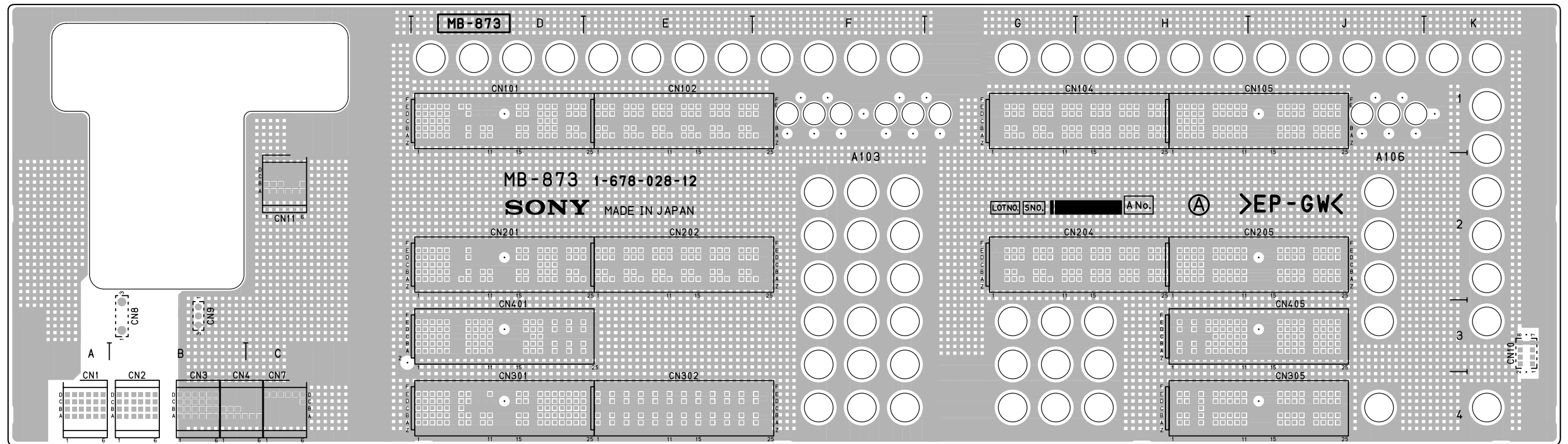
D4

E4

J4

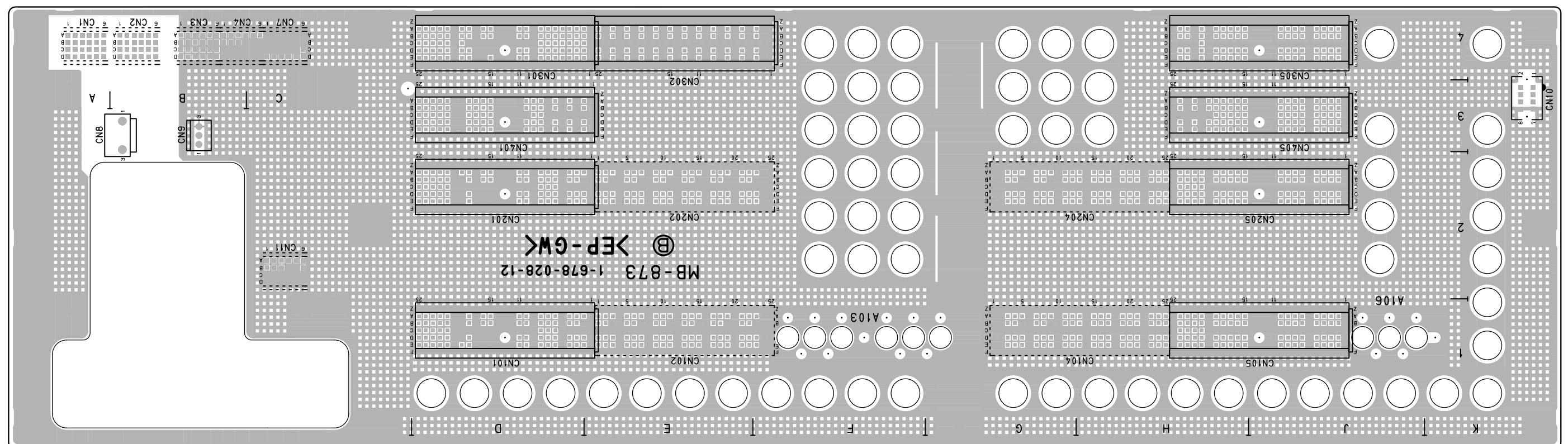
D3

J3



BVE-700 (SY) : S/N 10001 and Higher

MB-873 -A SIDE-SUFFIX: -12



MB-873 -B SIDE-
SUFFIX: -12

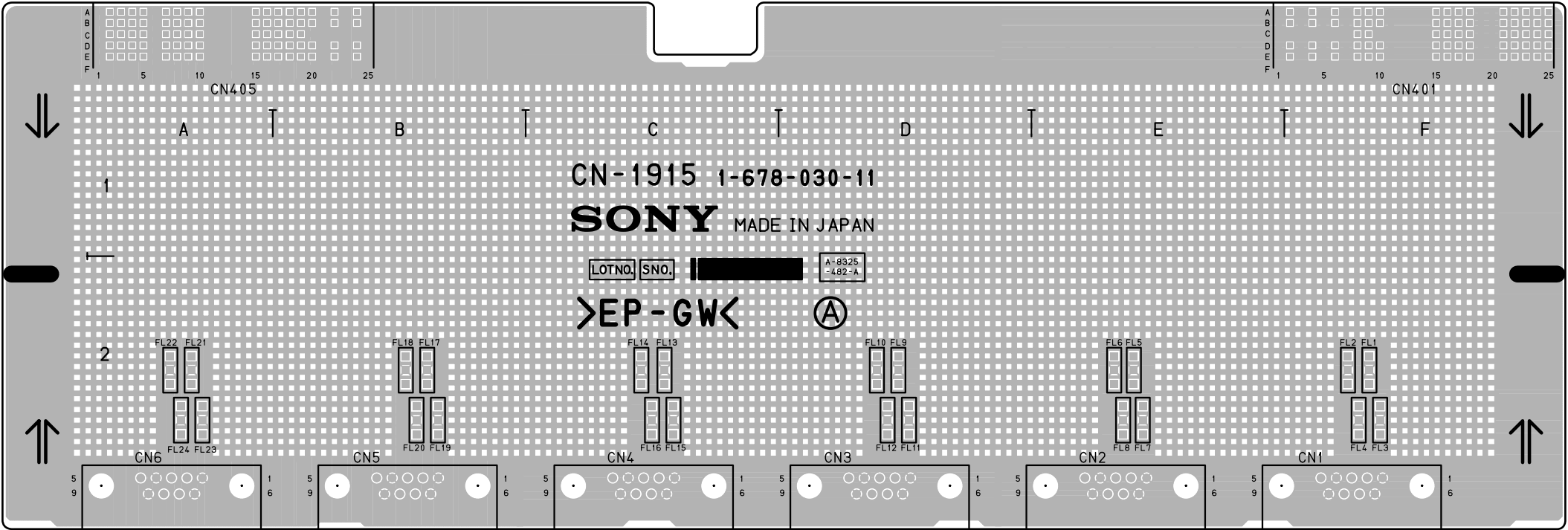
CN-1915 (1-678-030-11)

*:B SIDE

CL1 *B1
 CL2 *B1
 CL3 *B1
 CL4 *B1

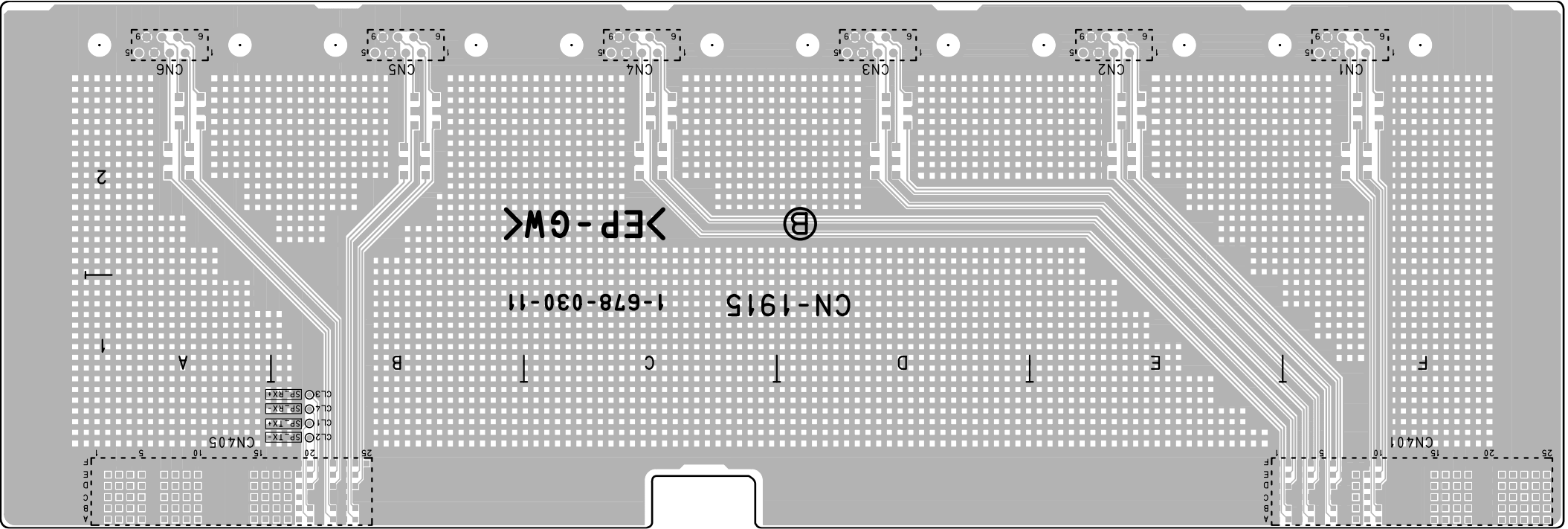
CN1 F2
 CN2 E2
 CN3 D2
 CN4 C2
 CN5 B2
 CN6 A2
 CN401 F1
 CN405 A1

FL1 F2
 FL2 F2
 FL3 F2
 FL4 F2
 FL5 E2
 FL6 E2
 FL7 E2
 FL8 E2
 FL9 D2
 FL10 D2
 FL11 D2
 FL12 D2
 FL13 C2
 FL14 C2
 FL15 C2
 FL16 C2
 FL17 B2
 FL18 B2
 FL19 B2
 FL20 B2
 FL21 A2
 FL22 A2
 FL23 A2
 FL24 A2



BVE-700 (SY) : S/N 10001 and Higher

CN-1915 -A SIDE-
 SUFFIX: -11

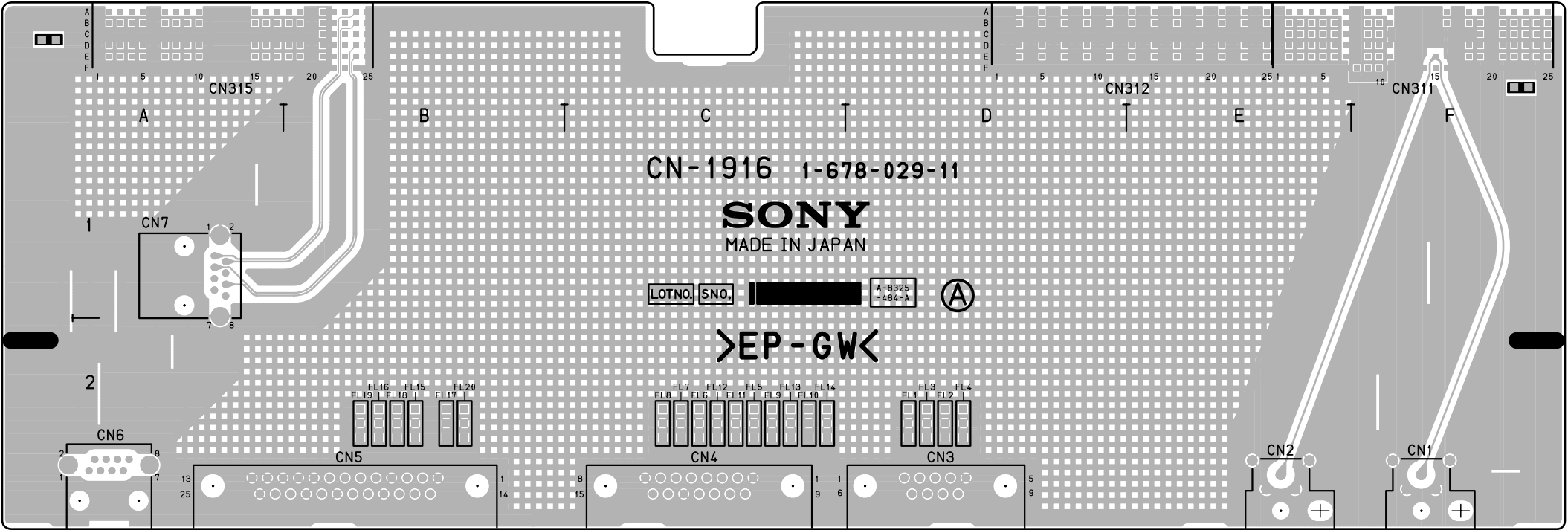


CN-1915 -B SIDE-
 SUFFIX: -11

CN-1916 (1-678-029-11)

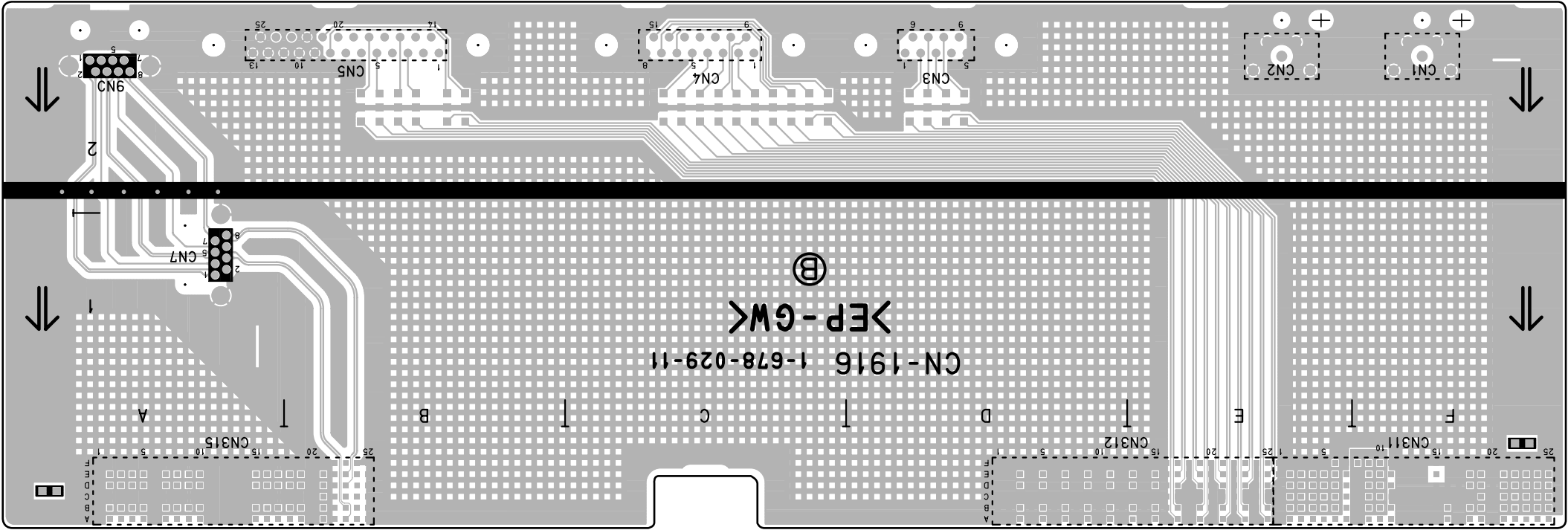
- CN1 F2
- CN2 E2
- CN3 D2
- CN4 C2
- CN5 B2
- CN6 A2
- CN7 A1
- CN311 F1
- CN312 E1
- CN315 A1

- FL1 D2
- FL2 D2
- FL3 D2
- FL4 D2
- FL5 C2
- FL6 C2
- FL7 C2
- FL8 C2
- FL9 C2
- FL10 C2
- FL11 C2
- FL12 C2
- FL13 C2
- FL14 C2
- FL15 B2
- FL16 B2
- FL17 B2
- FL18 B2
- FL19 B2
- FL20 B2

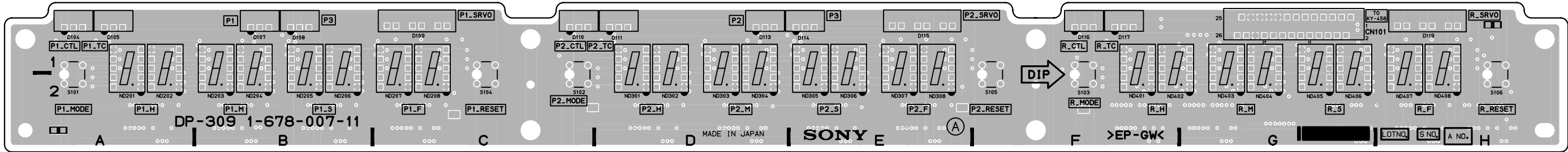


BVE-700 (SY) : S/N 10001 and Higher

CN-1916 -A SIDE-
SUFFIX: -11

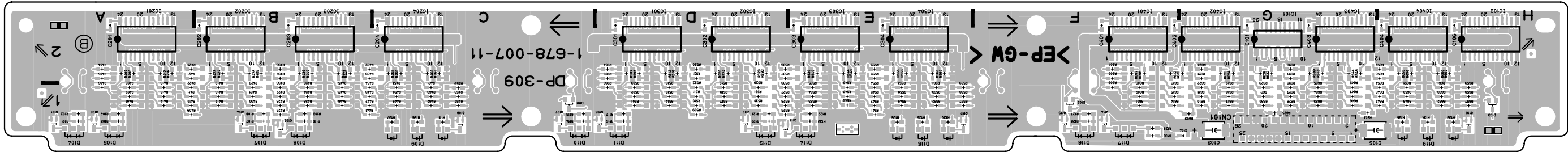


CN-1916 -B SIDE-
SUFFIX: -11



BVE-700 (SY) : S/N 10001 and Higher

DP-309 -A SIDE-
SUFFIX: -11

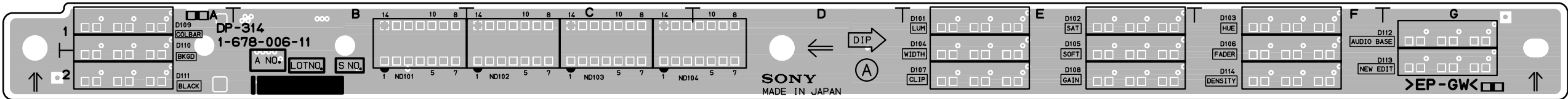


DP-309 -B SIDE-
SUFFIX: -11

DP-309 (1-678-007-11)

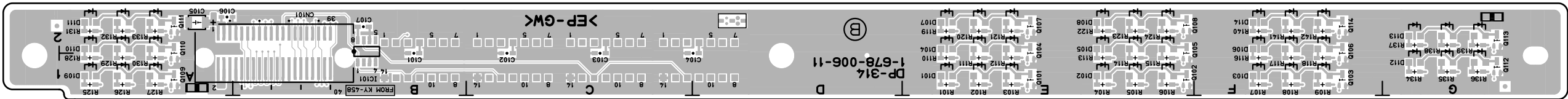
*:B SIDE

C101	*G2	IC401	*F2	R104	*A1	R422	*A1	R505	*D2	R552	*E2	R635	*G1
C103	*G1	IC402	*G2	R107	*B1	R423	*B2	R506	*D1	R553	*E2	R636	*G2
C104	*G1	IC403	*G2	R108	*B1	R424	*B2	R507	*D2	R554	*E1	R637	*G2
C105	*G1	IC404	*H2	R109	*B1	R425	*B1	R508	*D2	R555	*E2	R638	*G1
C106	*H2			R110	*B1	R426	*B1	R509	*D1	R556	*E2	R639	*G2
C201	*A2	ND201	A1	R111	*C1	R427	*B1	R510	*D1	R557	*E1	R640	*G2
C202	*B2	ND202	A1	R114	*C1	R428	*B2	R511	*D1	R558	*E1	R641	*G1
C203	*B2	ND203	B1	R115	*C1	R429	*B1	R512	*D2	R559	*E1	R642	*H1
C204	*C2	ND204	B1	R116	*D1	R430	*B1	R513	*D1	R560	*E2	R643	*H1
C301	*D2	ND205	B1	R117	*D1	R431	*B1	R514	*D1	R561	*E1	R644	*G2
C302	*D2	ND206	B1	R120	*D1	R432	*B2	R515	*D1	R562	*E1	R645	*G1
C303	*E2	ND207	C1	R121	*D1	R433	*B1	R516	*D2	R563	*E1	R646	*G1
C304	*E2	ND208	C1	R122	*E1	R434	*B1	R517	*D1	R564	*E2	R647	*G1
C401	*F2	ND301	D1	R123	*E1	R435	*B1	R518	*D1	R601	*F1	R648	*G2
C402	*F2	ND302	D1	R124	*E1	R436	*B2	R519	*D1	R602	*F1	R649	*H1
C403	*G2	ND303	D1	R125	*E1	R437	*B2	R520	*D2	R603	*F1	R650	*H1
C404	*H2	ND304	D1	R126	*E1	R438	*B1	R521	*D2	R604	*F2	R651	*H1
		ND305	E1	R127	*F1	R439	*B2	R522	*D1	R605	*F2	R652	*H2
		ND306	E1	R128	*F1	R440	*B2	R523	*D2	R606	*F1	R653	*H2
CN101	G1	ND307	E1	R129	*F1	R441	*B1	R524	*D2	R607	*F2	R654	*H1
		ND308	E1	R130	*F1	R442	*B1	R525	*D1	R608	*F2	R655	*H2
D101	*C1	ND401	F1	R133	*H1	R443	*B1	R526	*D1	R609	*G1	R656	*H2
D102	*F1	ND402	F1	R134	*H1	R444	*B2	R527	*D1	R610	*G1	R657	*H1
D103	*H1	ND403	G1	R135	*H1	R445	*B1	R528	*D2	R611	*G1	R658	*H1
D104	A1	ND404	G1	R136	*C1	R446	*B1	R529	*D1	R612	*F2	R659	*H1
D105	A1	ND405	G1	R137	*C1	R447	*B1	R530	*D1	R613	*F1	R660	*H2
D107	B1	ND406	G1	R401	*A1	R448	*B2	R531	*D1	R614	*F1	R661	*H1
D108	B1	ND407	H1	R402	*A1	R449	*C1	R532	*D2	R615	*F1	R662	*H1
D109	C1	ND408	H1	R403	*A1	R450	*C1	R533	*E1	R616	*G2	R663	*H1
D110	C1			R404	*A2	R451	*C1	R534	*E1	R617	*G1	R664	*H2
D111	D1			R405	*A2	R452	*B2	R535	*E1	R618	*G1		
D113	D1	Q101	*A1	R406	*A1	R453	*B2	R536	*D2	R619	*G1	S101	A2
D114	E1	Q102	*A1	R407	*A2	R454	*B1	R537	*D2	R620	*G2	S102	C2
D115	E1	Q104	*B1	R408	*A2	R455	*C2	R538	*D1	R621	*G2	S103	F2
D116	F1	Q105	*B1	R409	*A1	R456	*C2	R539	*E2	R622	*G1	S104	C2
D117	F1	Q106	*C1	R410	*A1	R457	*C1	R540	*E2	R623	*G2	S105	F2
D119	H1	Q107	*C1	R411	*A1	R458	*C1	R541	*E1	R624	*G2	S106	H2
		Q108	*D1	R412	*A2	R459	*C1	R542	*E1	R625	*G1		
IC101	*G2	Q110	*D1	R413	*A1	R460	*C2	R543	*E1	R626	*G1		
IC102	*H2	Q111	*D1	R414	*A1	R461	*C1	R544	*E2	R627	*G1		
IC201	*A2	Q112	*E1	R415	*A1	R462	*C1	R545	*E1	R628	*G2		
IC202	*B2	Q113	*F1	R416	*A2	R463	*C1	R546	*E1	R629	*G1		
IC203	*B2	Q114	*F1	R417	*B1	R464	*C2	R547	*E1	R630	*G1		
IC204	*C2	Q116	*H1	R418	*B1	R501	*D1	R548	*E2	R631	*G1		
IC301	*D2			R419	*B1	R502	*D1	R549	*E1	R632	*G2		
IC302	*D2	R101	*A1	R420	*A2	R503	*D1	R550	*E1	R633	*G1		
IC303	*E2	R102	*A1	R421	*A2	R504	*D2	R551	*E1	R634	*G1		
IC304	*E2	R103	*A1										



BVE-700 (SY) : S/N 10001 and Higher

DP-314 -A SIDE-
SUFFIX: -11

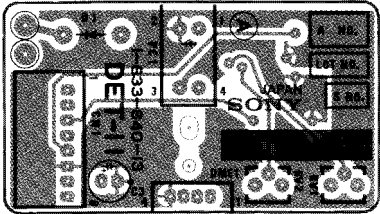


DP-314 -B SIDE-
SUFFIX: -11

DP-314 (1-678-006-11)

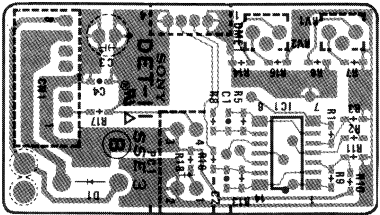
*:B SIDE

C101	*B2	R101	*E1
C102	*C2	R102	*E1
C103	*C2	R103	*E1
C104	*D2	R104	*E1
C105	*A2	R105	*E1
C106	*A2	R106	*E1
C107	*B2	R107	*F1
		R108	*F1
CN101	*B2	R109	*F1
		R110	*E1
D101	E1	R111	*E1
D102	E1	R112	*E1
D103	F1	R113	*E1
D104	E2	R114	*E1
D105	E2	R115	*E1
D106	F2	R116	*F1
D107	E2	R117	*F1
D108	E2	R118	*F1
D109	A1	R119	*E2
D110	A2	R120	*E2
D111	A2	R121	*E2
D112	G1	R122	*E2
D113	G2	R123	*E2
D114	F2	R124	*E2
		R125	*A1
IC101	*B2	R126	*A1
		R127	*A1
ND101	B1	R128	*A1
ND102	C1	R129	*A1
ND103	C1	R130	*A1
ND104	D1	R131	*A2
		R132	*A2
Q101	*E1	R133	*A2
Q102	*E1	R134	*G1
Q103	*F1	R135	*G1
Q104	*E2	R136	*G1
Q105	*E2	R137	*G2
Q106	*F2	R138	*G2
Q107	*E2	R139	*G2
Q108	*E2	R140	*F2
Q109	*A1	R141	*F2
Q110	*A2	R142	*F2
Q111	*A2		
Q112	*G1		
Q113	*G2		
Q114	*F2		



BVE-700 (SY) : S/N 10001 and Higher

DET-11A -A SIDE-
SUFFIX: -13

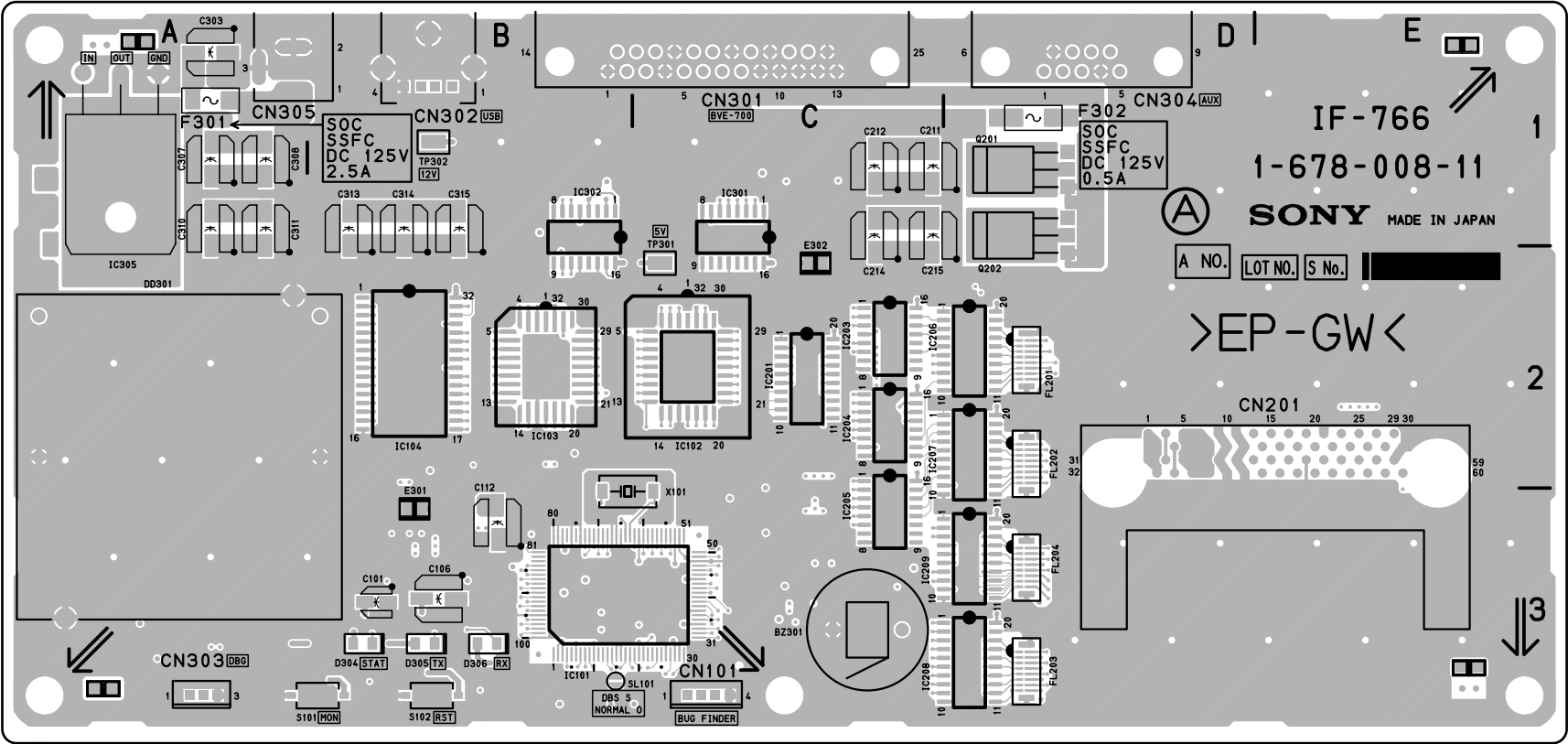


DET-11A -B SIDE-
SUFFIX: -13

IF-766 (1-678-008-11)

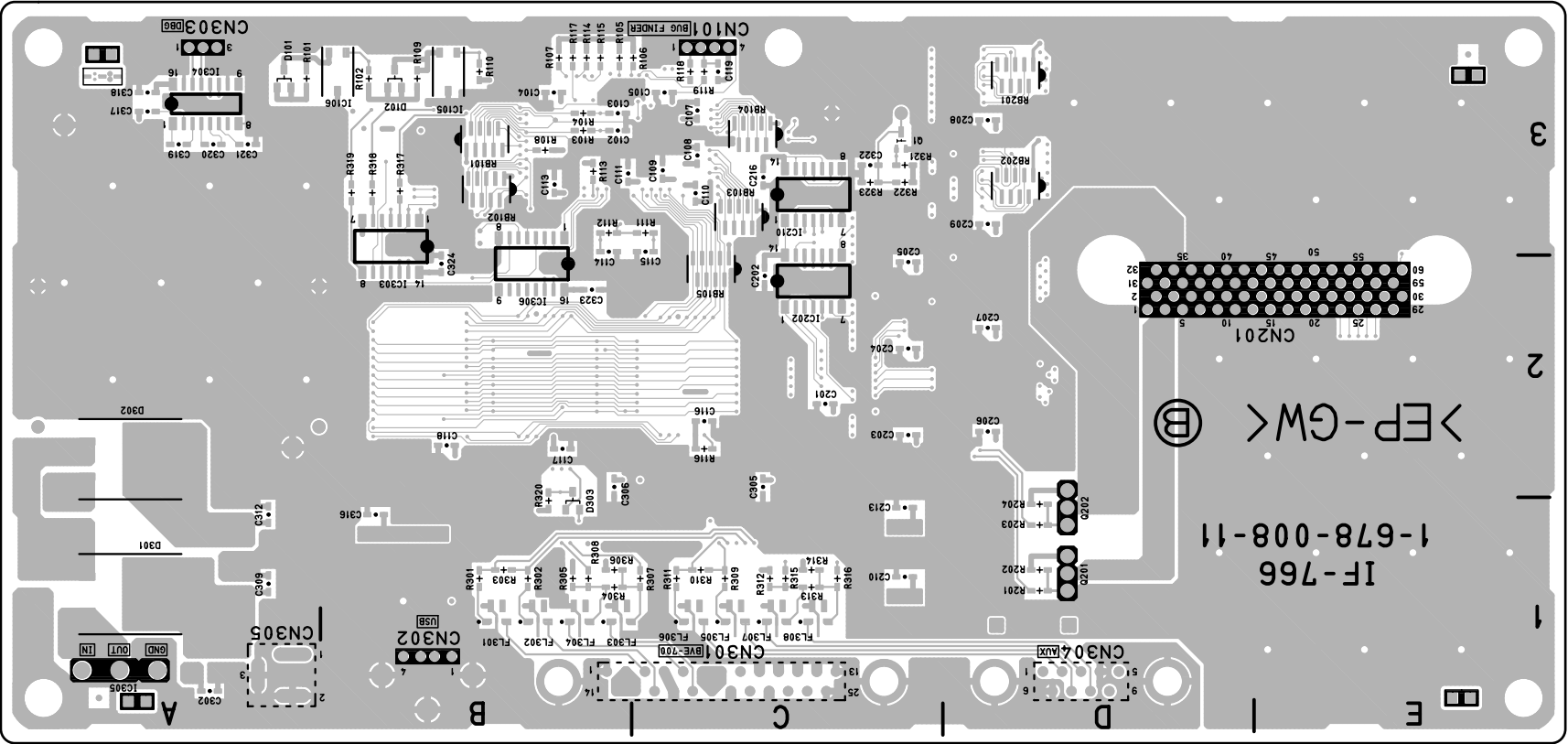
*:B SIDE

BZ301	C3	FL302	*B1	S101	B3
		FL303	*B1	S102	B3
C101	B3	FL304	*B1	SL101	B3
C102	*B3	FL305	*C1		
C103	*B3	FL306	*C1	TP301	C2
C104	*B3	FL307	*C1	TP302	B1
C105	*C3	FL308	*C1		
C106	B3			X101	B3
C107	*C3	IC101	B3		
C108	*C3	IC102	C2		
C109	*C3	IC103	B2		
C110	*C3	IC104	B2		
C111	*B3	IC105	*B3		
C112	B3	IC106	*B3		
C113	*B3	IC201	C2		
C114	*B3	IC202	*C2		
C115	*C3	IC203	C2		
C116	*C2	IC204	C2		
C117	*B2	IC205	C2		
C118	*B2	IC206	C2		
C119	*C3	IC207	C2		
C201	*C2	IC208	C3		
C202	*C2	IC209	C3		
C203	*C2	IC210	*C3		
C204	*C2	IC301	C1		
C205	*C2	IC302	B1		
C206	*D2	IC303	*B3		
C207	*D2	IC304	*A3		
C208	*D3	IC305	A1		
C209	*D3	IC306	*B3		
C210	*C1				
C211	C1	Q1	*C3		
C212	C1	Q201	D1		
C213	*C1	Q202	D1		
C214	C1				
C215	C1	R101	*A3		
C216	*C3	R102	*B3		
C302	*A1	R103	*B3		
C303	A1	R104	*B3		
C305	*C2	R105	*B3		
C306	*B2	R106	*C3		
C307	A1	R107	*B3		
C308	A1	R108	*B3		
C309	*A1	R109	*B3		
C310	A1	R110	*B3		
C311	A1	R111	*C3		
C312	*A1	R112	*B3		
C313	B1	R113	*B3		
C314	B1	R114	*B3		
C315	B1	R115	*B3		
C316	*B1	R116	*C2		
C317	*A3	R117	*B3		
C318	*A3	R118	*C3		
C319	*A3	R119	*C3		
C320	*A3	R201	*D1		
C321	*A3	R202	*D1		
C322	*C3	R203	*D1		
C323	*B2	R204	*D1		
C324	*B2	R301	*B1		
		R302	*B1		
CN101	C3	R303	*B1		
CN201	E2	R304	*B1		
CN301	C1	R305	*B1		
CN302	B1	R306	*B1		
CN303	A3	R307	*C1		
CN304	D1	R308	*B1		
CN305	A1	R309	*C1		
		R310	*C1		
D101	*A3	R311	*C1		
D102	*B3	R312	*C1		
D301	*A1	R313	*C1		
D302	*A2	R314	*C1		
D303	*B1	R315	*C1		
D304	B3	R316	*C1		
D305	B3	R317	*B3		
D306	B3	R318	*B3		
		R319	*B3		
DD301	A2	R320	*B1		
		R321	*C3		
E301	B3	R322	*C3		
E302	C2	R323	*C3		
F301	A1	RB101	*B3		
F302	D1	RB102	*B3		
		RB103	*C3		
FL201	D2	RB104	*C3		
FL202	D2	RB105	*C2		
FL203	D3	RB201	*D3		
FL204	D3	RB202	*D3		
FL301	*B1				

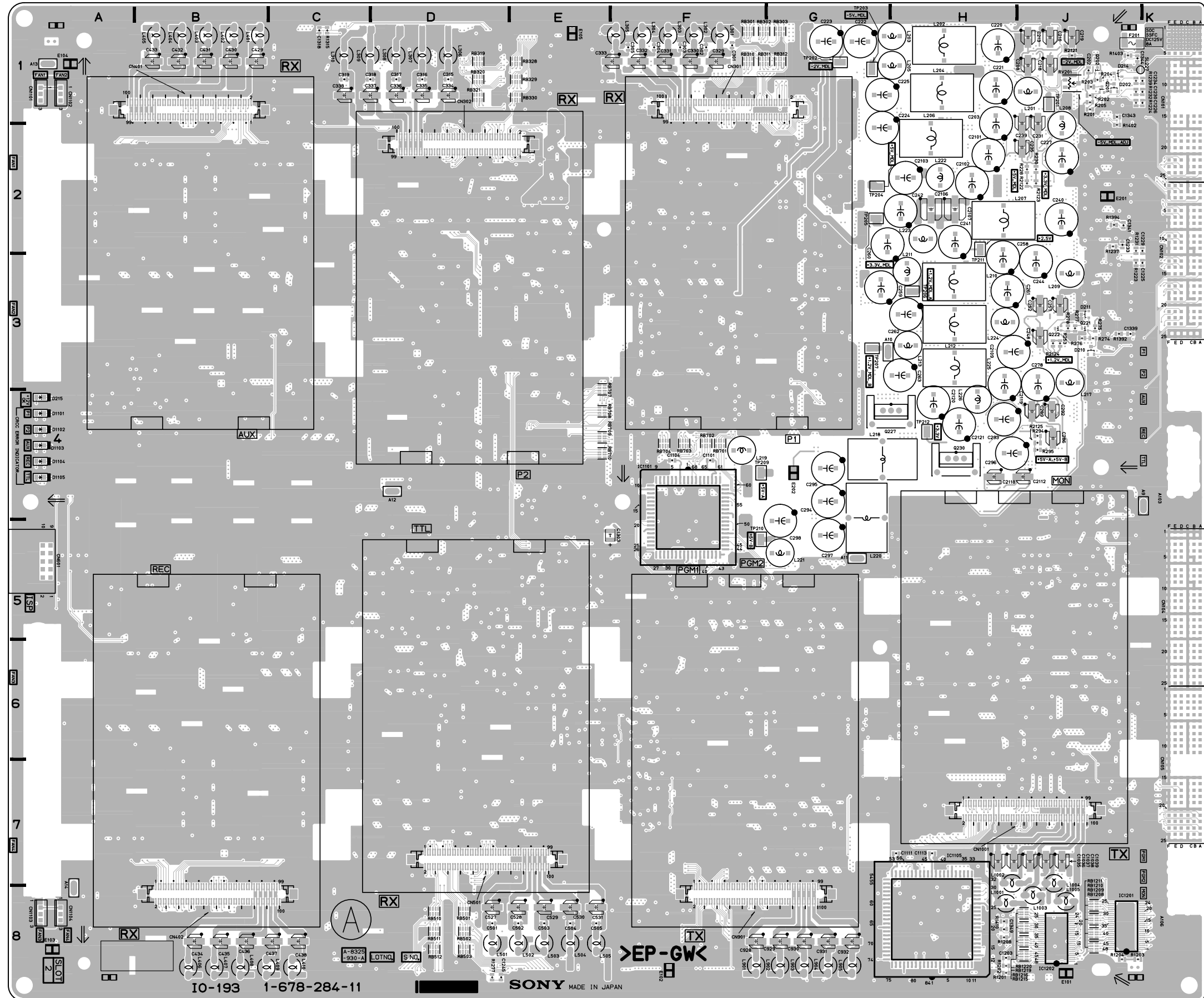


BVE-700 (SY) : S/N 10001 and Higher

IF-766 -A SIDE-
SUFFIX: -11



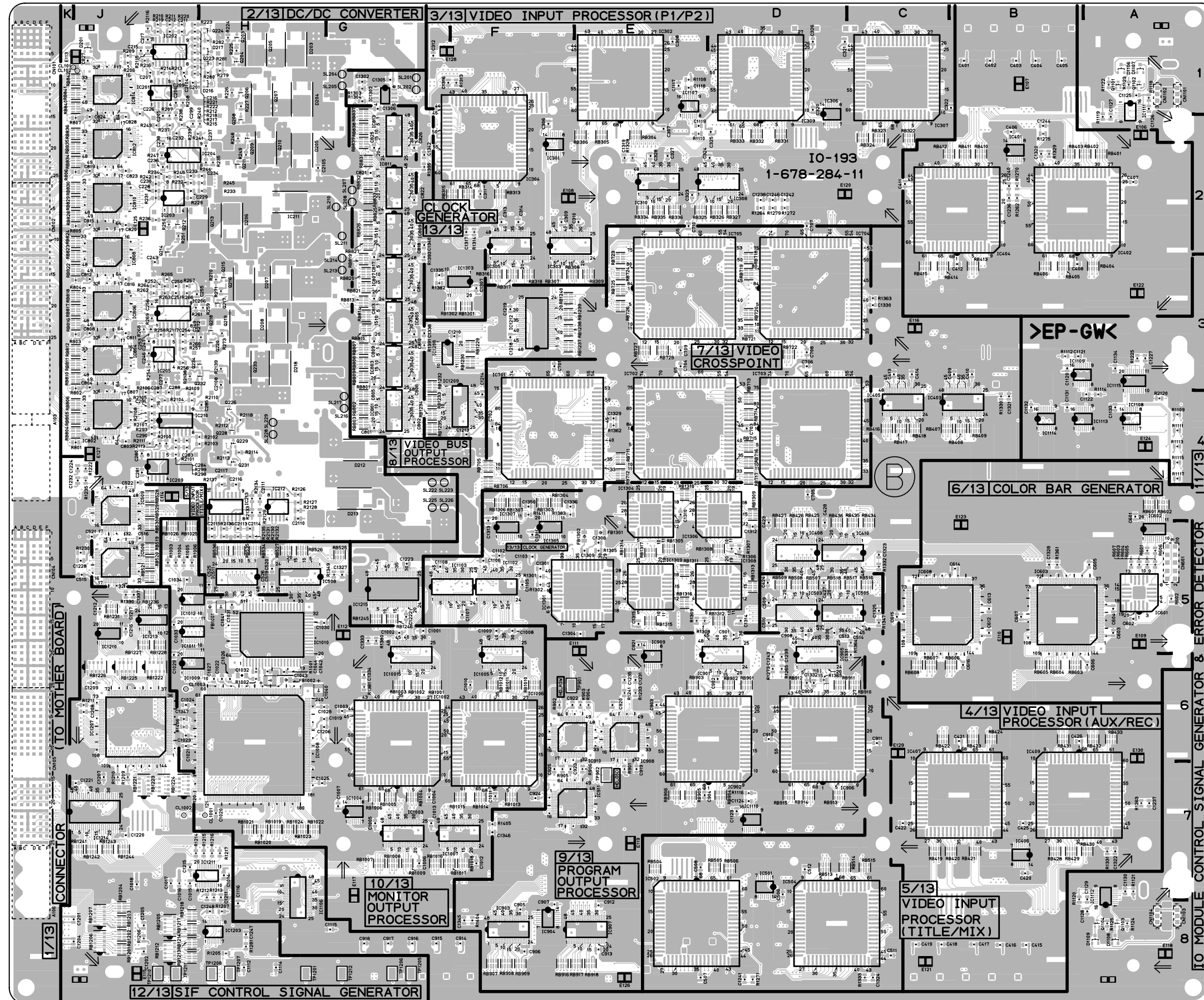
IF-766 -B SIDE-
SUFFIX: -11

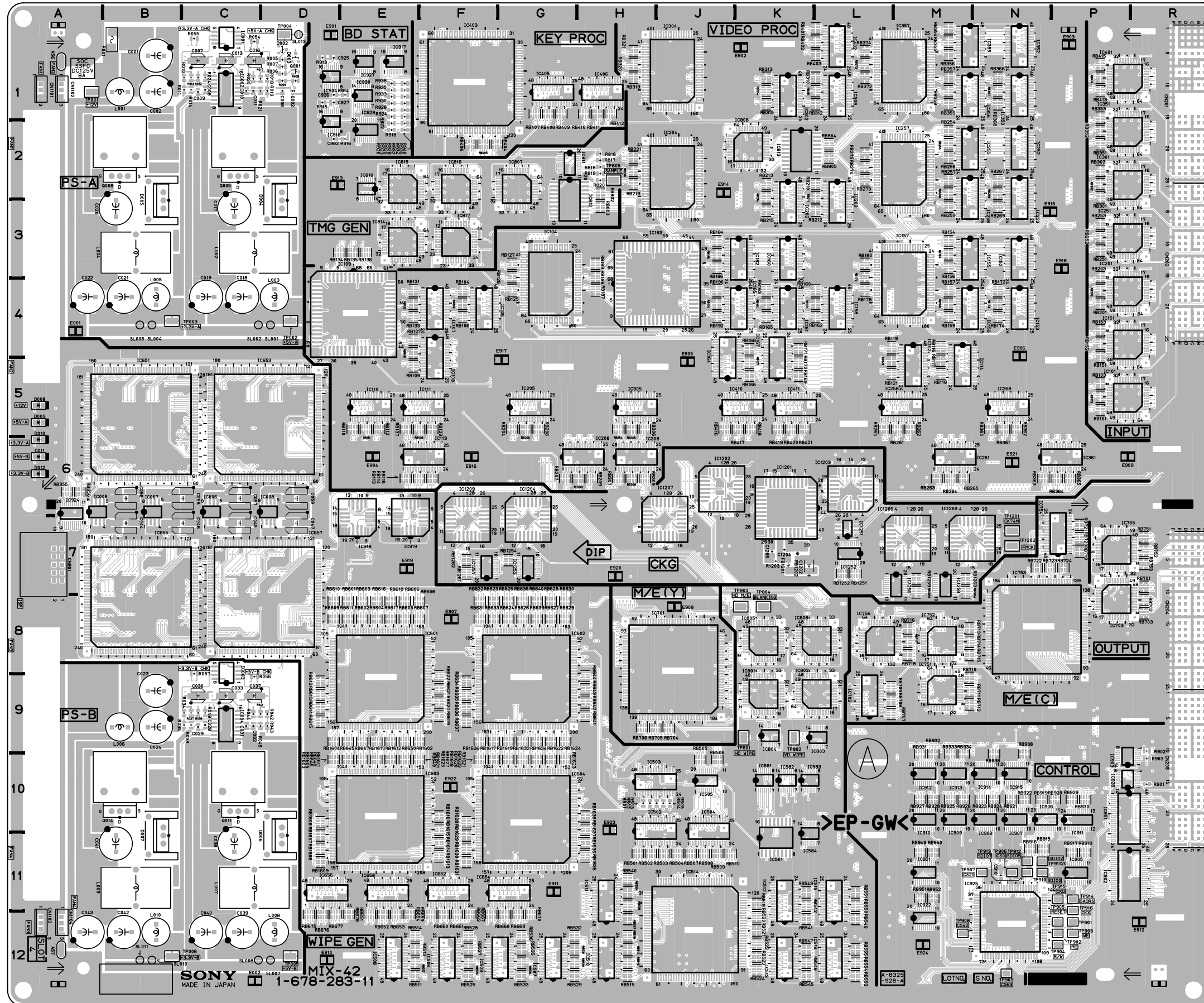


BKE-701 (SY) : S/N 10001 and Higher

Components location list ; previous page

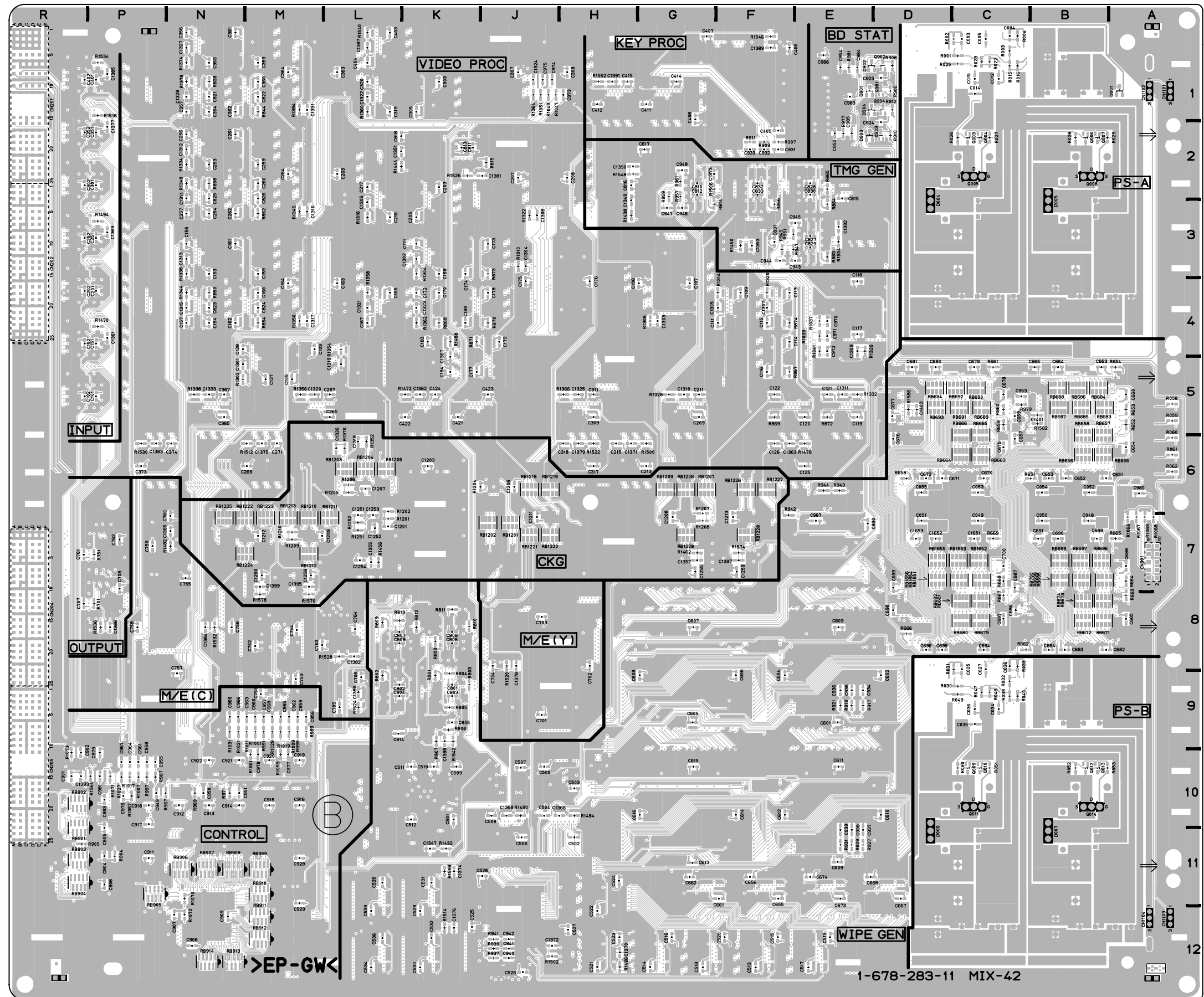
IO-193 -A SIDE-
SUFFIX: -11





BKE-701 (SY) : S/N 10001 and Higher

MIX-42 -A SIDE-
SUFFIX: -11



Components location list ; next page

MIX-42 -B SIDE-
SUFFIX: -11

Section 7

Schematic Diagrams

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BVE-700

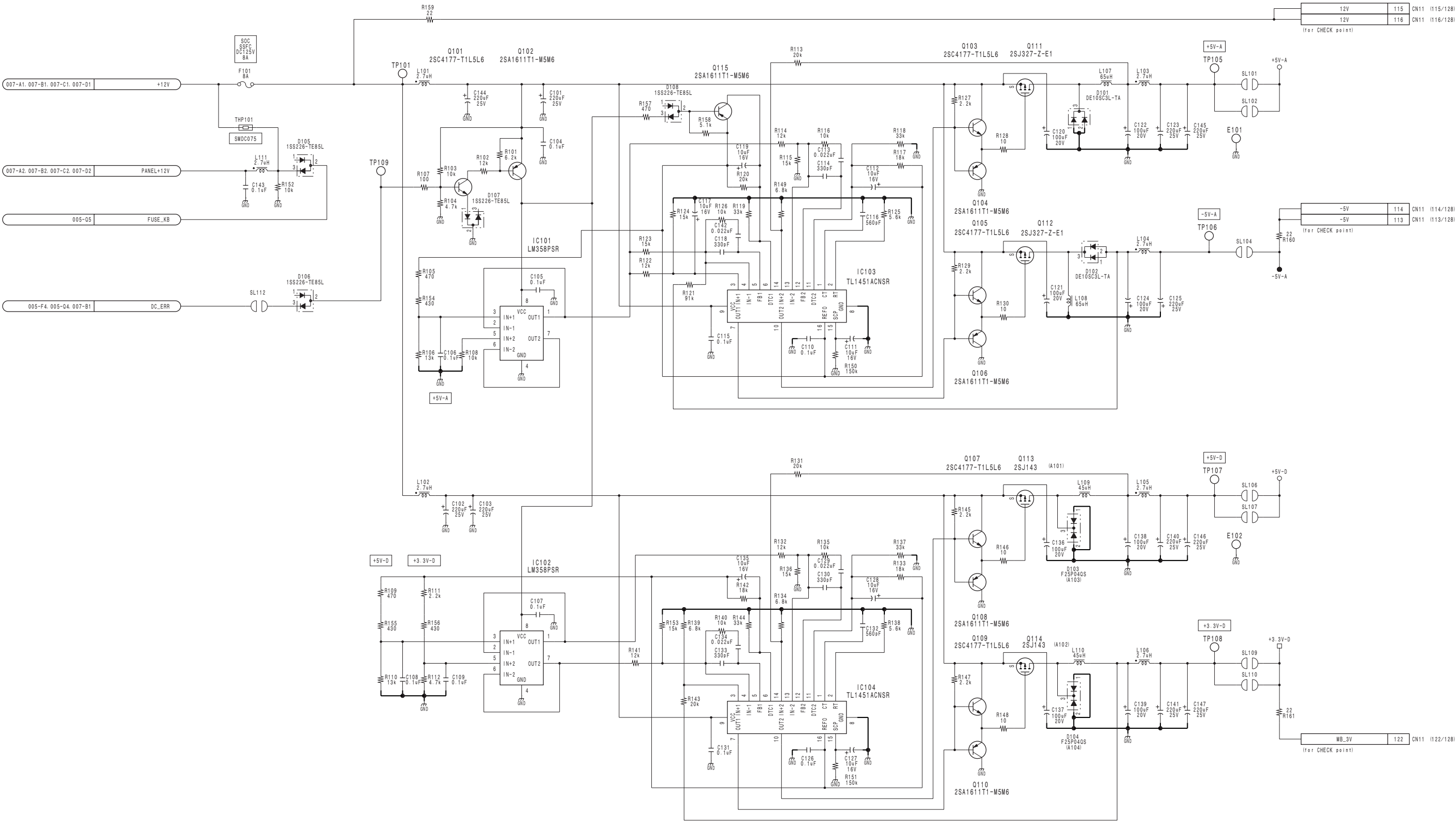
Board Name		Function	Page
Processor	CKG-27	CPU Interface/Clock Generator	7-3
	CPU-317A	System Control	7-16
	MEM-94A	EDL Backup Memory Board	7-26
	MB-873	Motherboard	7-30
	CN-1915	Connector	7-33
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	IF-766	Interface	7-48
	DET-11A	Dial Pulse Waveform Shaping	7-112
Frame Wiring	—	—	7-107

BKE-701

Board Name		Function	Page
IO-193		HD I/O Signal Processing	7-52
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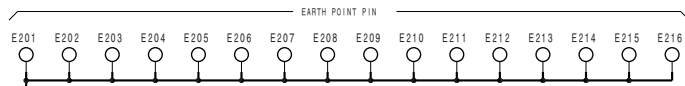
BVE-700 (SY) : S/N 10001 and Higher

DC/DC CONVERTER

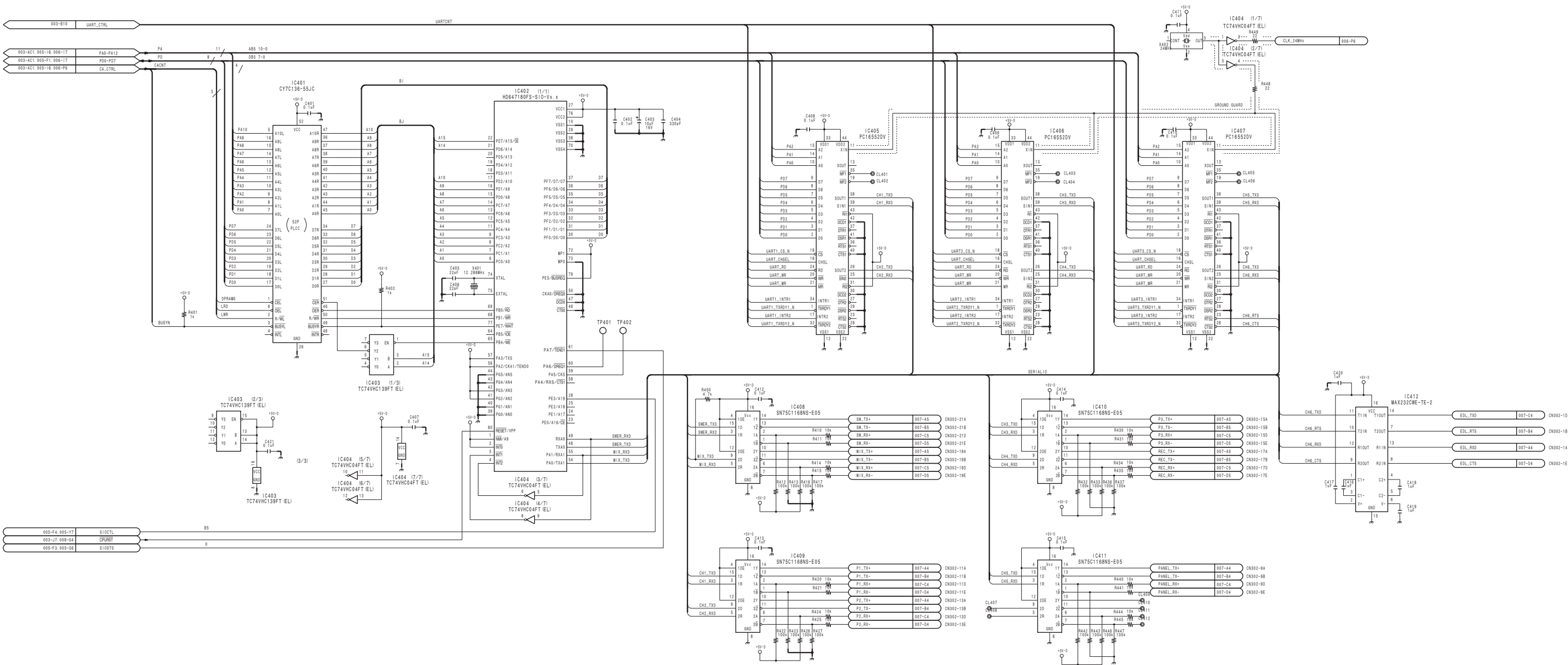


CKG-27 (1/8)
BOARD NO. 1-678-033-11
LOT NO. 912-
SJX-180_CKG-27_002_1

CLOCK GENERATOR



BVE-700 (SY) : S/N 10001 and Higher



CKG-27 (4/8)
BOARD NO. 1-678-033-11
LOT NO. 912-
SJX-180_CKG-27_002_4

BVE-700 (SY) : S/N 10001 and Higher

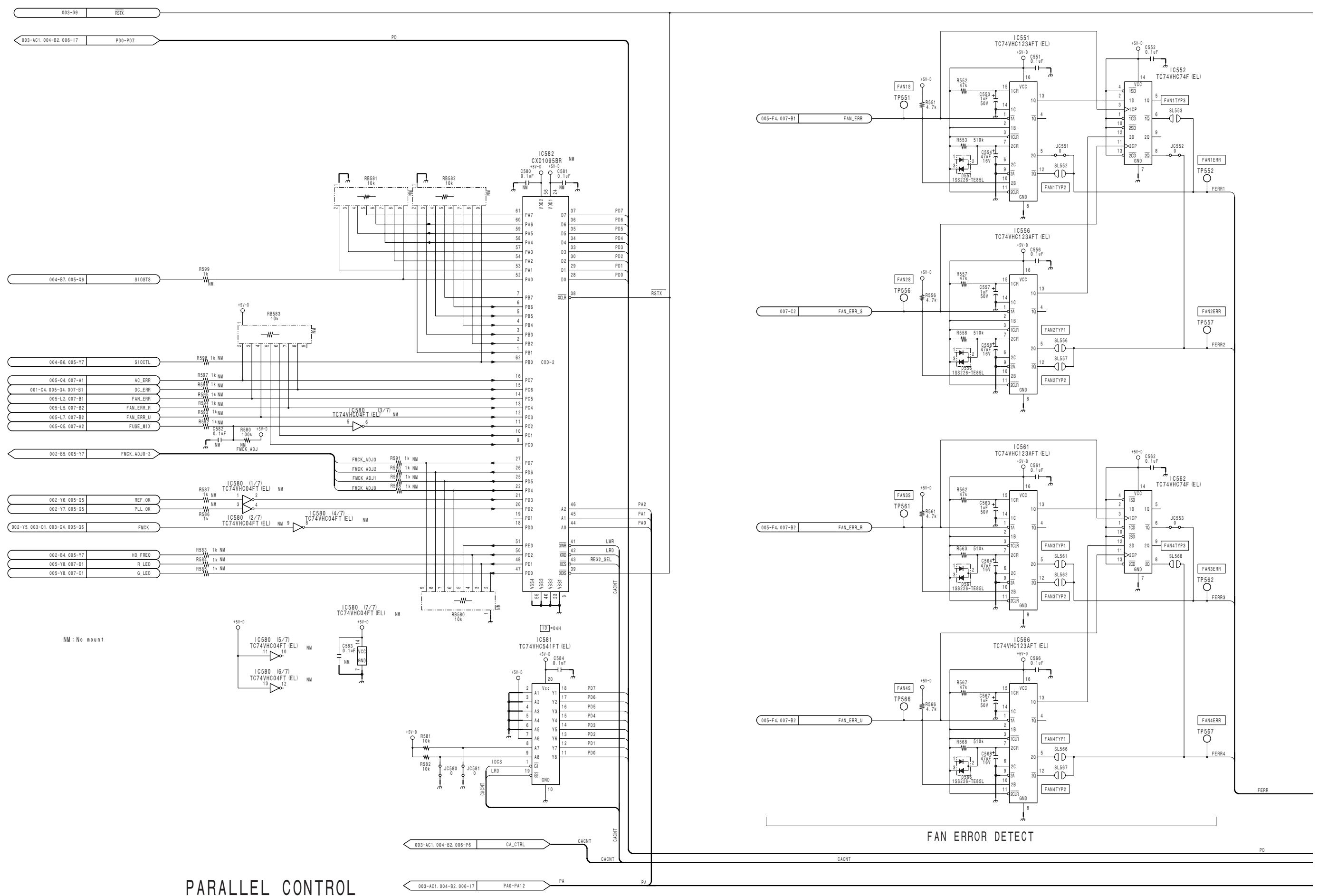
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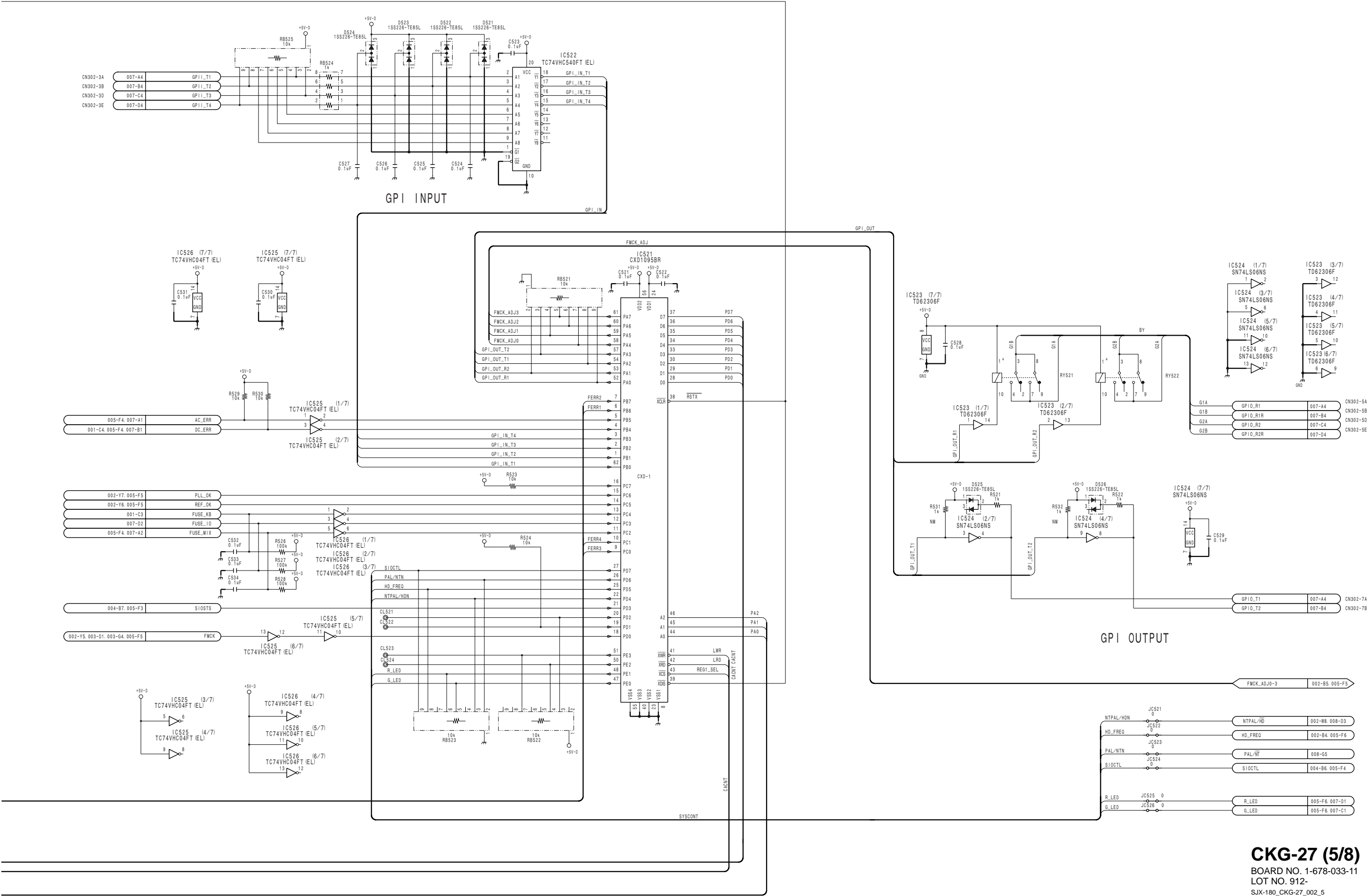
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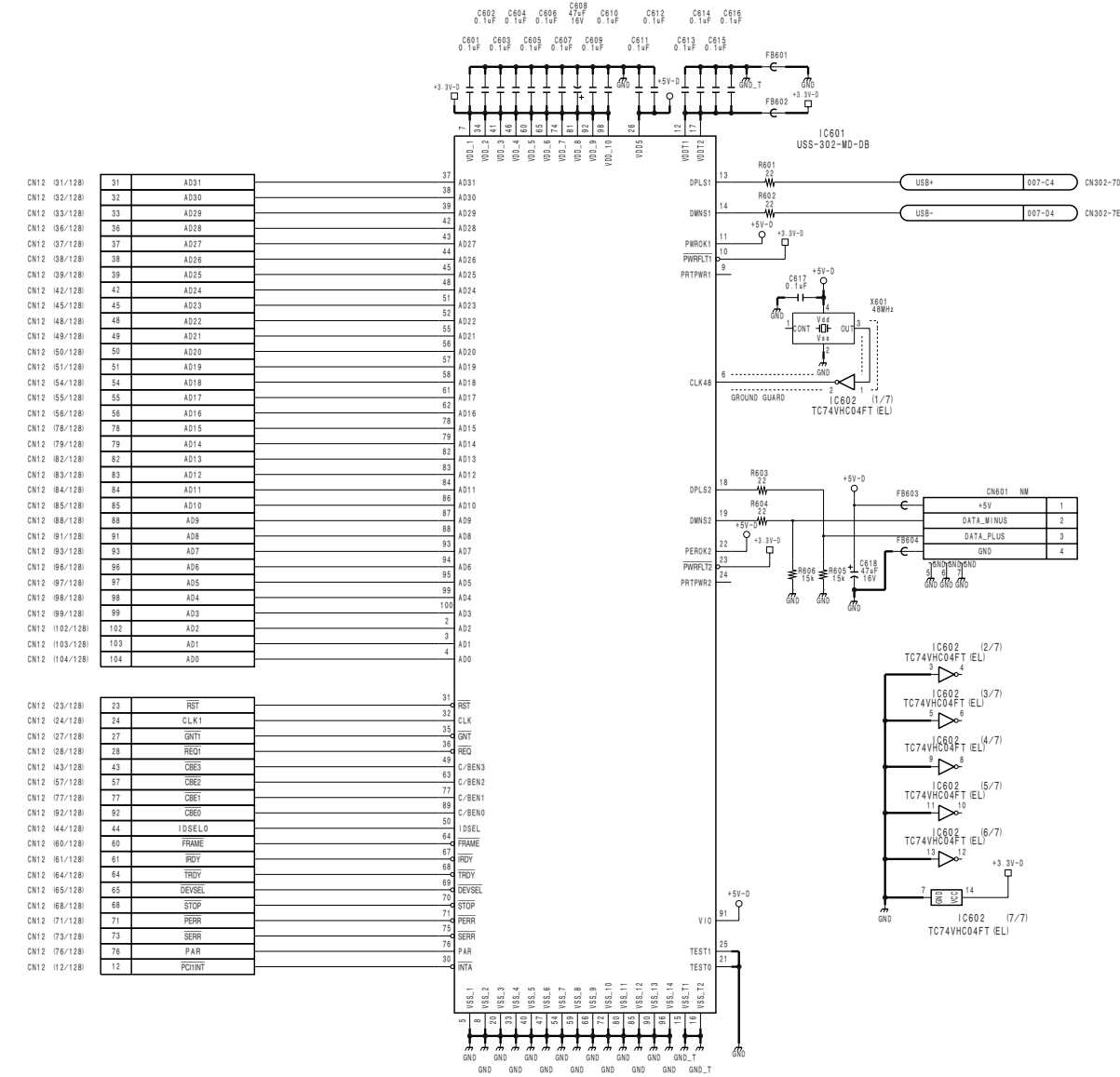
4

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BVE-700 (SY) : S/N 10001 and Higher



USB CONTROLLER

PARTS NO. 801-

BVE-700 (SY) : S/N 10001 and Higher

CKG-27

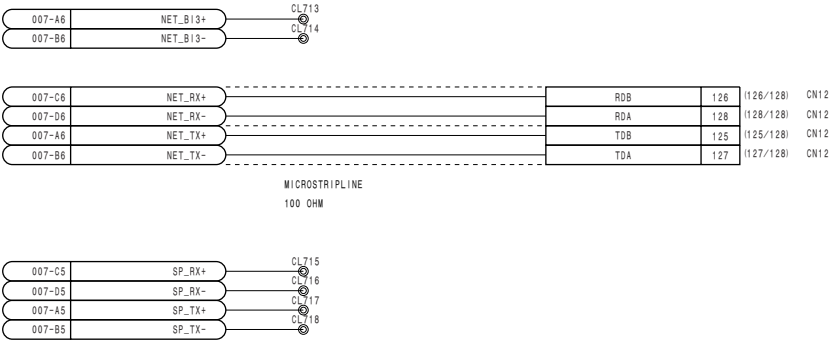
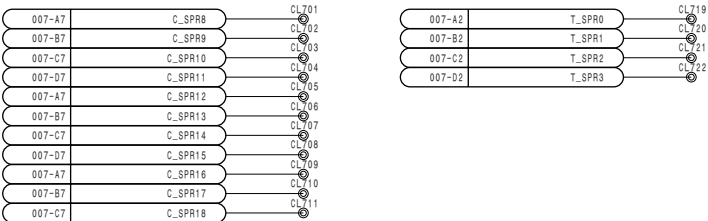
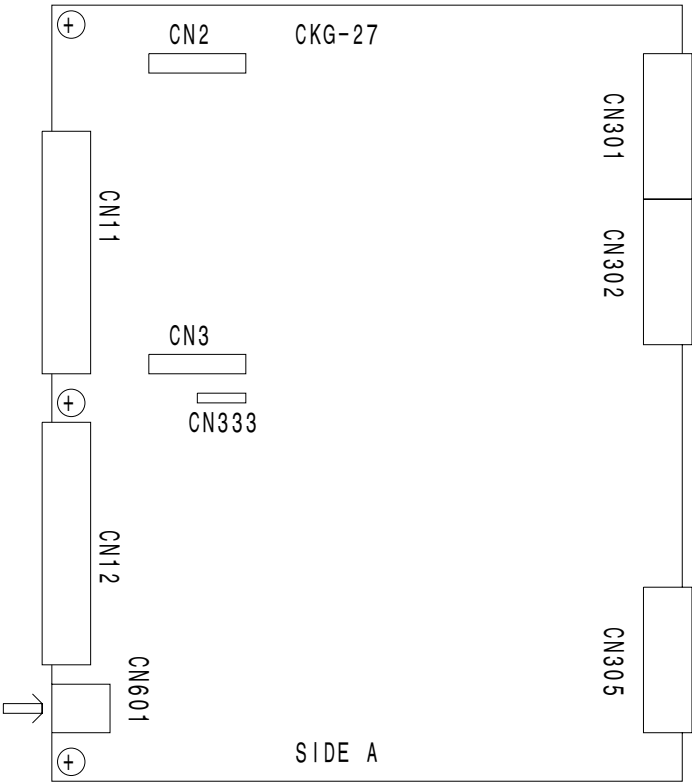
← BOTTOM

	CN301					
	a	b	c	d	e	FG
1	+12V	+12V	+12V	+12V	+12V	GND
2	+12V	+12V	+12V	+12V	+12V	GND
3	+12V	+12V	+12V	+12V	+12V	GND
4	+12V	+12V	+12V	+12V	+12V	GND
5	AC_ERR	DC_ERR	FAN_ERR	G_LED	R_LED	GND
6	GND	GND	GND	GND	GND	GND
7	FUSE_MIX	FAN_ERR_R	FAN_ERR_U	FAN_ERR_S	FUSE_IO	GND
8	CK37A+	CK37A-	GND	CK37B+	CK37B-	GND
9	GND	GND	GND	GND	GND	GND
10	FWCKA+	FWCKA-	GND	GND	GND	GND
11	T_SPR0	T_SPR1	GND	GND	REF	GND
12						GND
13						GND
14						GND
15	FWCKB+	FWCKB-	GND	T_SPR2	T_SPR3	GND
16	CKX	CGCLK	GND	CGDATA	CGCS	GND
17	GND	GND	GND	GND	GND	GND
18	PANEL+12V	PANEL+12V	PANEL+12V	PANEL+12V	PANEL+12V	GND
19						GND
20						GND
21						GND
22						GND
23						GND
24						GND
25	GND	GND	GND	GND	GND	GND

	CN302					
	a	b	c	d	e	FG
1	EDL_RXD	EDL_RTS	GND	EDL_TXD	EDL_CTS	GND
2	GND	GND	GND	GND	GND	GND
3	GP11_T1	GP11_T2	GND	GP11_T3	GP11_T4	GND
4	GND	GND	GND	GND	GND	GND
5	GPIO_R1	GPIO_R1R	GND	GPIO_R2	GPIO_R2R	GND
6	GND	GND	GND	GND	GND	GND
7	GPIO_T1	GPIO_T2	GND	USB+	USB-	GND
8	GND	GND	GND	GND	GND	GND
9	PANEL_TX+	PANEL_TX-	GND	PANEL_RX+	PANEL_RX-	GND
10	GND	GND	GND	GND	GND	GND
11	P1_TX+	P1_TX-	GND	P1_RX+	P1_RX-	GND
12	GND	GND	GND	GND	GND	GND
13	P2_TX+	P2_TX-	GND	P2_RX+	P2_RX-	GND
14	GND	GND	GND	GND	GND	GND
15	P3_TX+	P3_TX-	GND	P3_RX+	P3_RX-	GND
16	GND	GND	GND	GND	GND	GND
17	REC_TX+	REC_TX-	GND	REC_RX+	REC_RX-	GND
18	GND	GND	GND	GND	GND	GND
19	MIX_TX+	MIX_TX-	GND	MIX_RX+	MIX_RX-	GND
20	GND	GND	GND	GND	GND	GND
21	SW_TX+	SW_TX-	GND	SW_RX+	SW_RX-	GND
22	GND	GND	GND	GND	GND	GND
23	SP_TX+	SP_TX-	GND	SP_RX+	SP_RX-	GND
24	GND	GND	GND	GND	GND	GND
25	GND	GND	GND	GND	GND	GND

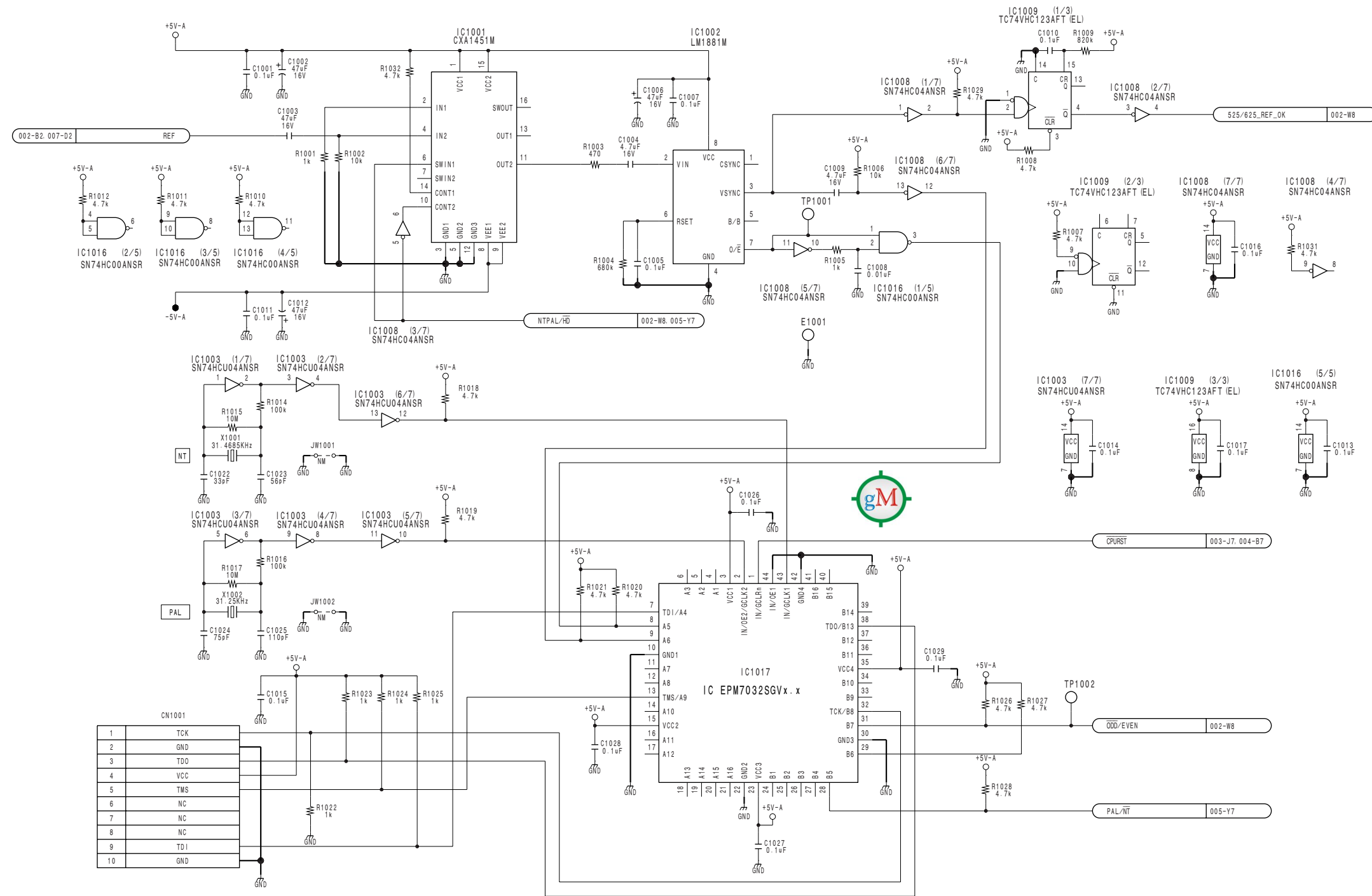
	CN305					
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2	NET_TX+	NET_TX-	GND	NET_RX+	NET_RX-	GND
3	NET_B13+	NET_B13-	GND	NET_B14+	NET_B14-	GND
4	GND	GND	GND	GND	GND	GND
5						GND
6	GND	GND	GND	GND	GND	GND
7	C_SPR0	C_SPR1	GND	C_SPR2	C_SPR3	GND
8	C_SPR4	C_SPR5	GND	C_SPR6	C_SPR7	GND
9	C_SPR8	C_SPR9	GND	C_SPR10	C_SPR11	GND
10	C_SPR12	C_SPR13	GND	C_SPR14	C_SPR15	GND
11	C_SPR16	C_SPR17	GND	C_SPR18	STROBE	GND
12						GND
13						GND
14						GND
15	GND	GND	GND	GND	GND	GND
16	RD	WR	GND	D1R	RST-	GND
17	IOSEL	MIXSEL	GND	STATUS0	STATUS1	GND
18	ADRS0	ADRS1	GND	ADRS2	ADRS3	GND
19	ADRS4	ADRS5	GND	ADRS6	ADRS7	GND
20	GND	GND	GND	GND	GND	GND
21	DATA0	DATA1	GND	DATA2	DATA3	GND
22	DATA4	DATA5	GND	DATA6	DATA7	GND
23	DATA8	DATA9	GND	DATA10	DATA11	GND
24	DATA12	DATA13	GND	DATA14	DATA15	GND
25	GND	GND	GND	GND	GND	GND

← BOTTOM



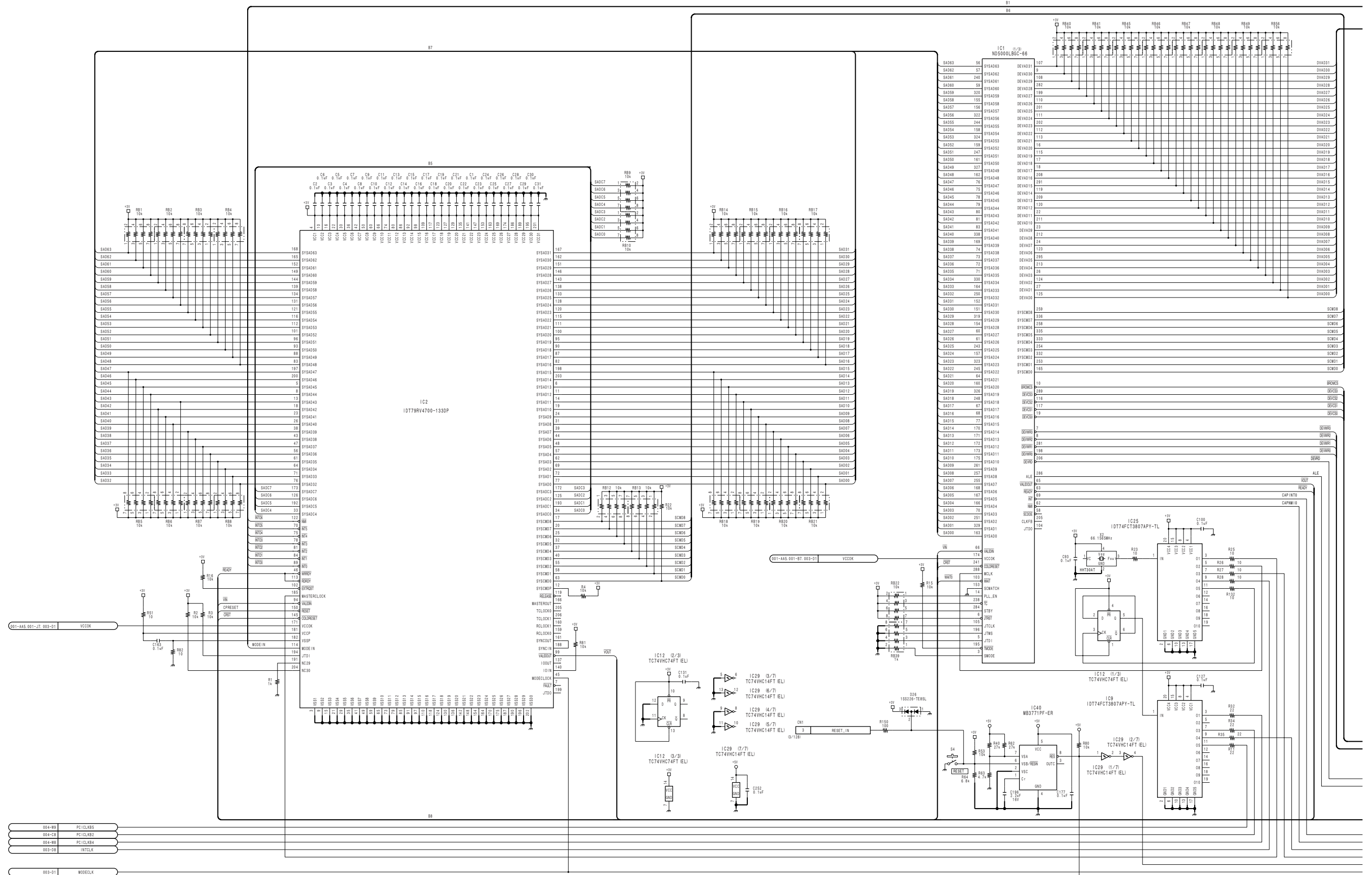
CKG-27 (7/8)
BOARD NO. 1-678-033-11
LOT NO. 912-
SJX-180_CKG-27_002_7

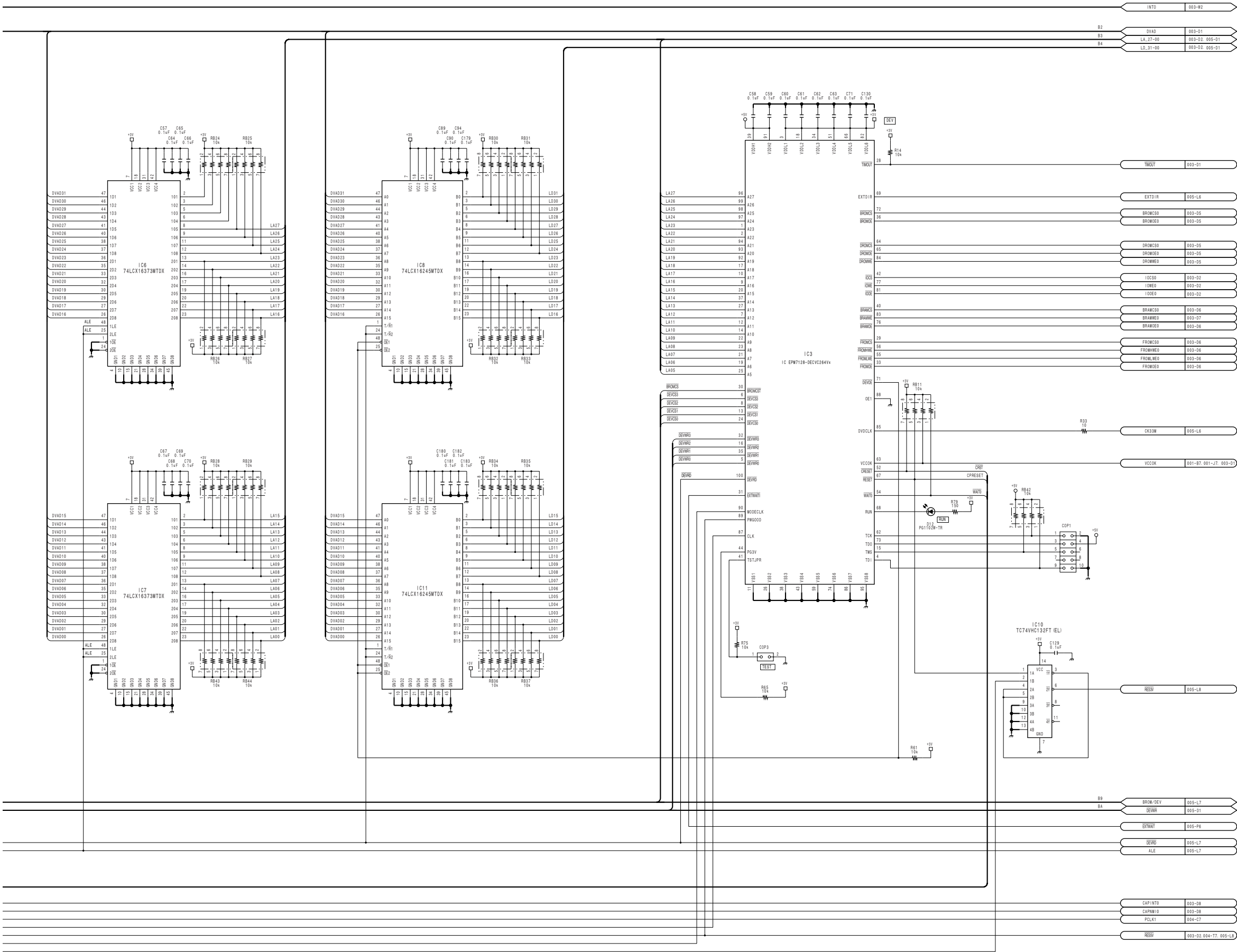
NT/PAL GENERATOR



BOARD NO. 1-678-033-11
LOT NO. 912-
SJX-180_CKG-27_002_8

BVE-700 (SY) : S/N 10001 and Higher

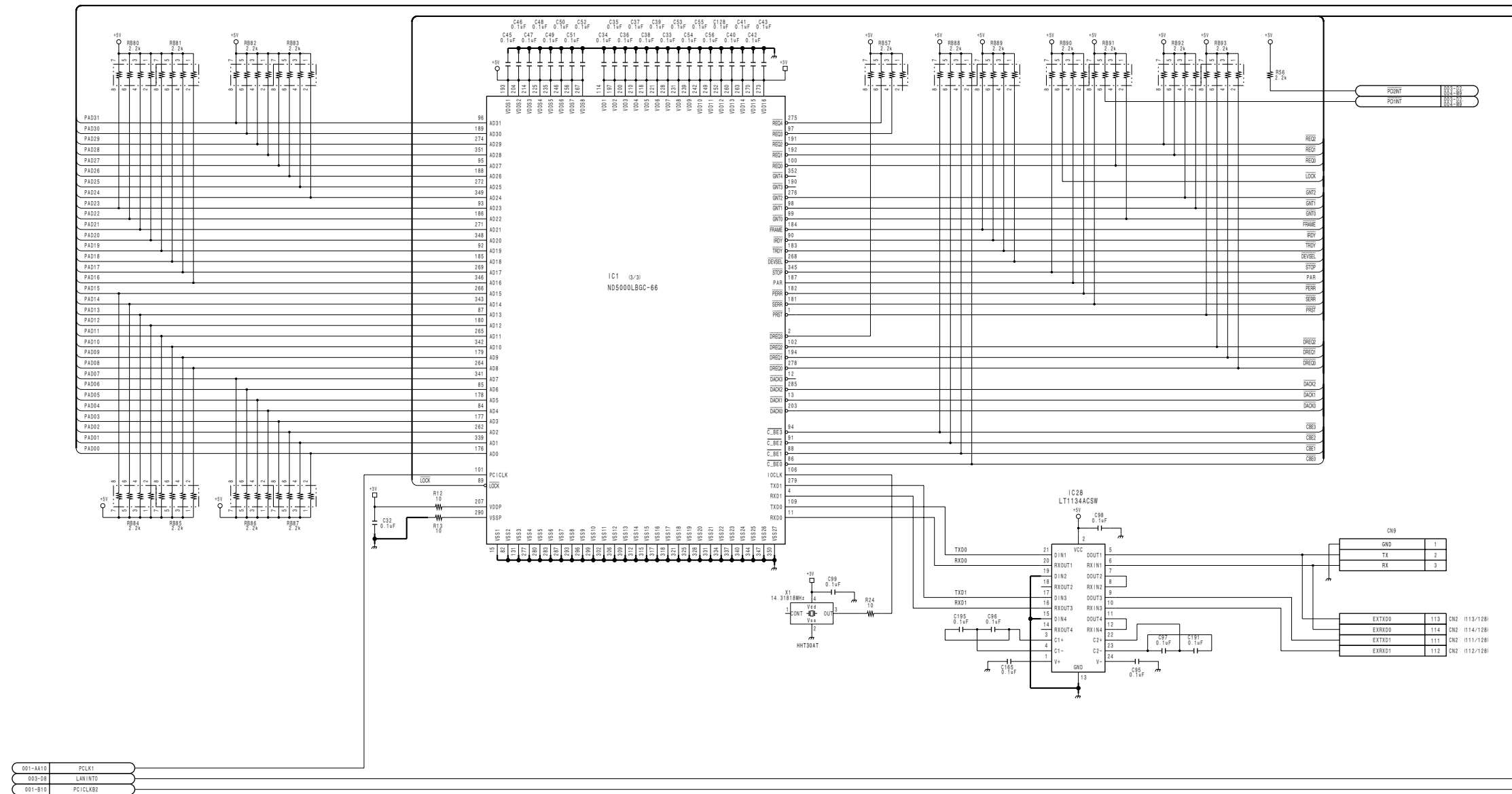




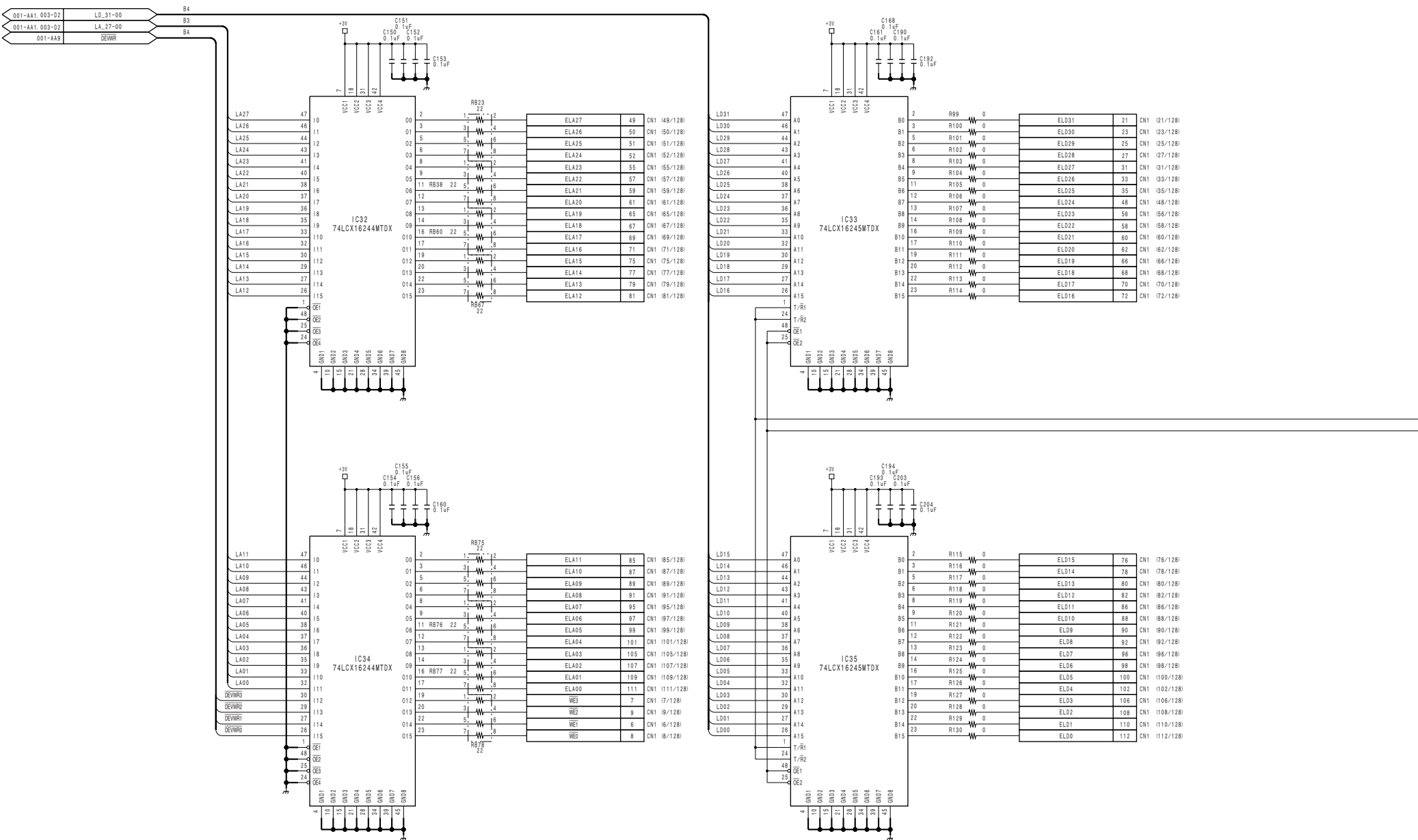
CPU-317A (1/5)
BOARD NO. 1-675-922-11
LOT NO. 912-
SJX-180_CPU-317_002_1

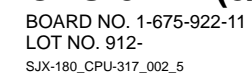
CPU-317A (4/5)

BVE-700 (SY) : S/N 10001 and Higher

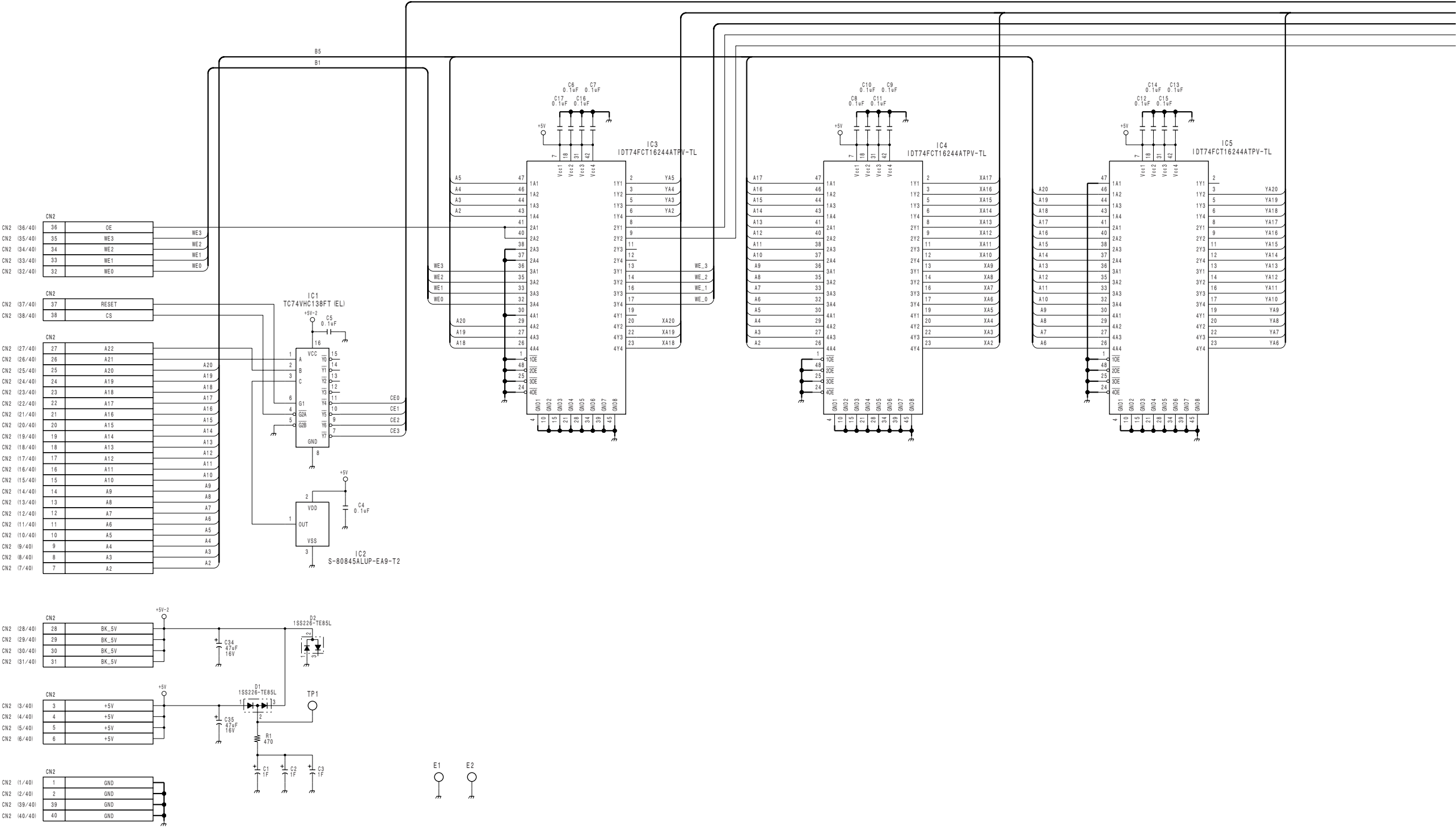


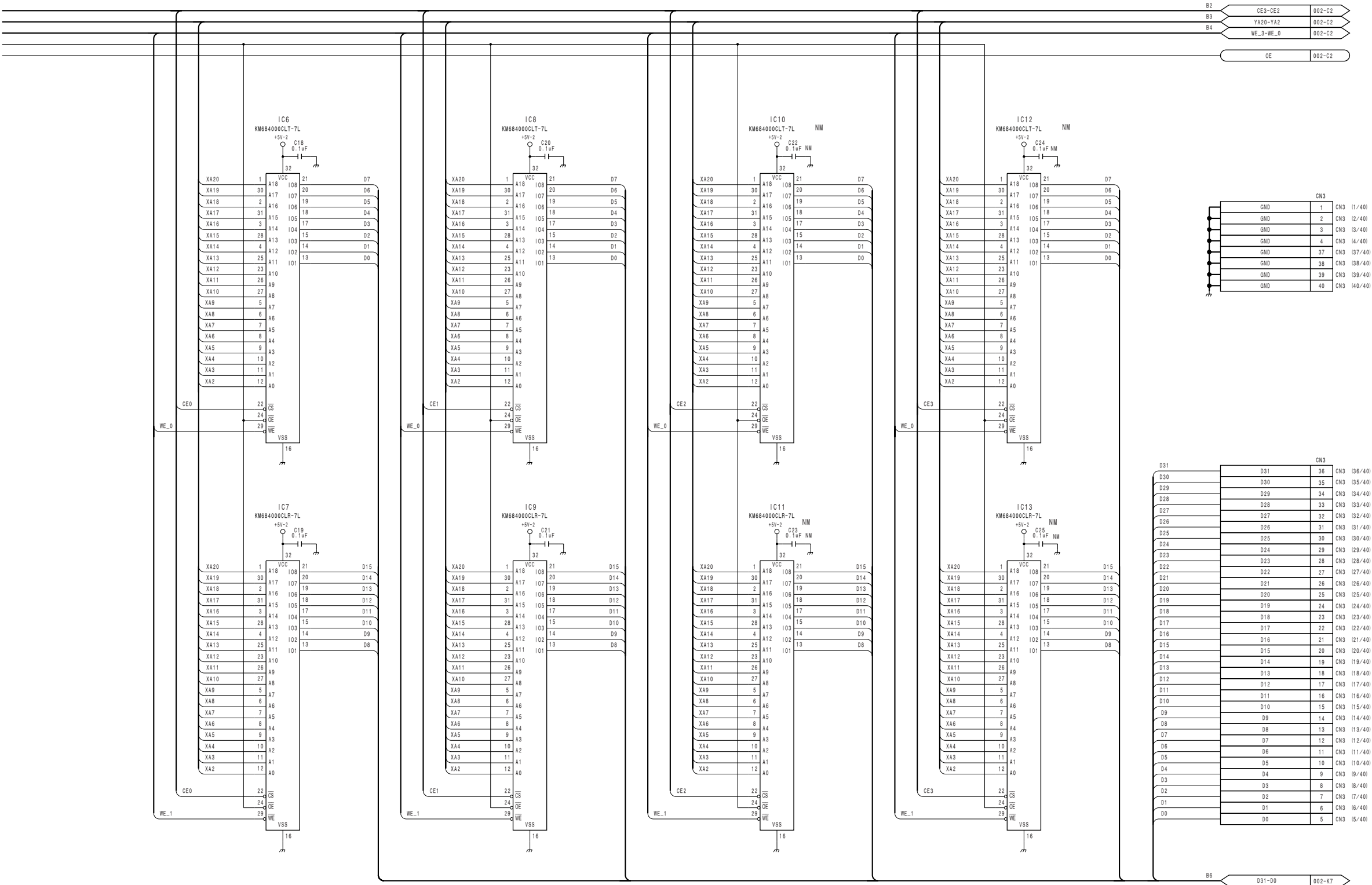
BVE-700 (SY) : S/N 10001 and Higher





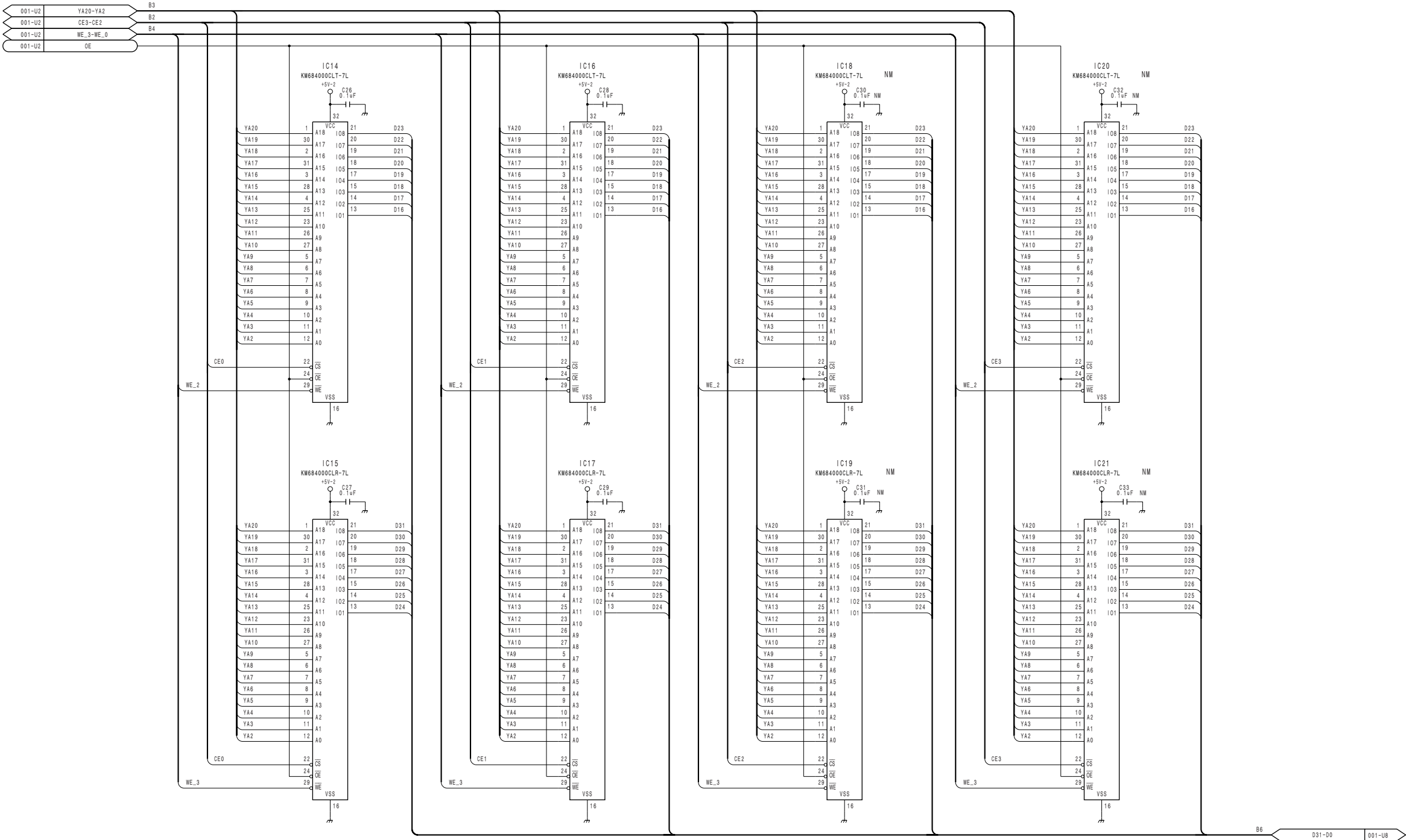
BVE-700 (SY) : S/N 10001 and Higher





MEM-94A (1/2)
BOARD NO. 1-671-776-12
LOT NO. 912-
SJX-180_MEM-94_001_1

BVE-700 (SY) : S/N 10001 and Higher



MEM-94A (2/2)
BOARD NO. 1-671-776-12
LOT NO. 912-
SJX-180_MEM-94_001_2

10-193

10-193

CN101							
	Z	A	B	C	D	E	F
1	GND	+12V	+12V	+12V	+12V	+12V	GND
2	GND	+12V	+12V	+12V	+12V	+12V	GND
3	GND	+12V	+12V	+12V	+12V	+12V	GND
4	GND	+12V	+12V	+12V	+12V	+12V	GND
5	GND		DC_ERR				GND
6	GND	GND	GND	GND	GND	GND	GND
7	GND	GND	GND	GND	FUSE_10	GND	GND
8	GND			CK37B+	CK37B+	GND	GND
9	GND	GND	GND	GND	GND	GND	GND
10	GND			GND	GND	GND	GND
11	GND	T_SPR0	T_SPR1	GND	GND	GND	GND
12							
13							
14							
15	GND	FBI0B+	FBI0B-	GND	T_SPR2	T_SPR3	GND
16	GND	CLK	CSCLK	GND	CSDATA	CSOS	GND
17	GND	GND	GND	GND	GND	GND	GND
18	GND						GND
19	GND						GND
20	GND						GND
21	GND	GND	GND	GND	GND	GND	GND
22	GND	KST0	KST1	GND	KST2	KST3	GND
23	GND	KST4	KST5	GND	KST6	KST7	GND
24	GND	KSTCK	GND	GND	KST8	KST9	GND
25	GND	GND	GND	GND	GND	GND	GND

CN104							
	Z	A	B	C	D	E	F
1	GND	GND	GND	GND	GND	GND	GND
2	GND	GND	GND	GND	GND	GND	GND
3	GND	MIXC0	MIXC1	GND	MIXC2	MIXC3	GND
4	GND	MIXC4	MIXC5	GND	MIXC6	MIXC7	GND
5	GND	MIXCCK	GND	GND	MIXC8	MIXC9	GND
6	GND	GND	GND	GND	GND	GND	GND
7	GND	MIXY0	MIXY1	GND	MIXY2	MIXY3	GND
8	GND	MIXY4	MIXY5	GND	MIXY6	MIXY7	GND
9	GND	MIXYCK	GND	GND	MIXY8	MIXY9	GND
10	GND	GND	GND	GND	GND	GND	GND
11	GND	V_SPR0	V_SPR1	GND	V_SPR2	V_SPR3	GND
12	GND	V_SPR4	V_SPR5	GND	V_SPR6	V_SPR7	GND
13	GND	V_SPR8	V_SPR9	GND	V_SPR10	V_SPR11	GND
14	GND	GND	GND	GND	GND	GND	GND
15	GND	V_SPR12	V_SPR13	GND	V_SPR14	V_SPR15	GND
16	GND	V_SPR16	V_SPR17	GND	V_SPR18	V_SPR19	GND
17	GND	V_SPR20	V_SPR21	GND	V_SPR22	V_SPR23	GND
18	GND	GND	GND	GND	GND	GND	GND
19	GND	V_SPR24	V_SPR25	GND	V_SPR26	V_SPR27	GND
20	GND	V_SPR28	V_SPR29	GND	V_SPR30	V_SPR31	GND
21	GND	V_SPR32	V_SPR33	GND	V_SPR34	V_SPR35	GND
22	GND	GND	GND	GND	GND	GND	GND
23	GND	V_SPR36	V_SPR37	GND	V_SPR38	V_SPR39	GND
24	GND	V_SPR40	V_SPR41	GND	V_SPR42	V_SPR43	GND
25	GND	V_SPR44	V_SPR45	GND	V_SPR46	V_SPR47	GND

CN102							
	Z	A	B	C	D	E	F
1	GND	KFC0	KFC1	GND	KFC2	KFC3	GND
2	GND	KFC4	KFC5	GND	KFC6	KFC7	GND
3	GND	KFCCK	GND	GND	KFC8	KFC9	GND
4	GND	GND	GND	GND	GND	GND	GND
5	GND	KFY0	KFY1	GND	KFY2	KFY3	GND
6	GND	KFY4	KFY5	GND	KFY6	KFY7	GND
7	GND	KFYCK	GND	GND	KFY8	KFY9	GND
8	GND	GND	GND	GND	GND	GND	GND
9	GND	BGAC0	BGAC1	GND	BGAC2	BGAC3	GND
10	GND	BGAC4	BGAC5	GND	BGAC6	BGAC7	GND
11	GND	BGACCK	GND	GND	BGAC8	BGAC9	GND
12	GND	GND	GND	GND	GND	GND	GND
13	GND	BGAY0	BGAY1	GND	BGAY2	BGAY3	GND
14	GND	BGAY4	BGAY5	GND	BGAY6	BGAY7	GND
15	GND	BGAYCK	GND	GND	BGAY8	BGAY9	GND
16	GND	GND	GND	GND	GND	GND	GND
17	GND	BGBC0	BGBC1	GND	BGBC2	BGBC3	GND
18	GND	BGBC4	BGBC5	GND	BGBC6	BGBC7	GND
19	GND	BGBCCK	GND	GND	BGBC8	BGBC9	GND
20	GND	GND	GND	GND	GND	GND	GND
21	GND	BGBY0	BGBY1	GND	BGBY2	BGBY3	GND
22	GND	BGBY4	BGBY5	GND	BGBY6	BGBY7	GND
23	GND	BGBYCK	GND	GND	BGBY8	BGBY9	GND
24	GND	GND	GND	GND	GND	GND	GND
25	GND	GND	GND	GND	GND	GND	GND

CN105							
	Z	A	B	C	D	E	F
1	GND	GND	GND	GND	GND	GND	GND
2	GND						GND
3	GND						GND
4	GND						GND
5	GND						GND
6	GND	GND	GND	GND	GND	GND	GND
7	GND	C_SPR0	C_SPR1	GND	C_SPR2	C_SPR3	GND
8	GND	C_SPR4	C_SPR5	GND	C_SPR6	C_SPR7	GND
9	GND	C_SPR8	C_SPR9	GND	C_SPR10	C_SPR11	GND
10	GND	C_SPR12	C_SPR13	GND	C_SPR14	C_SPR15	GND
11	GND	C_SPR16	C_SPR17	GND	C_SPR18	STROBE	GND
12							
13							
14							
15	GND	GND	GND	GND	GND	GND	GND
16	GND	RD	WR	GND	D1R	RET+	GND
17	GND	IOSEL	MIXSEL	GND	STATUS0	STATUS1	GND
18	GND	ADDR0	ADDR1	GND	ADDR2	ADDR3	GND
19	GND	ADDR4	ADDR5	GND	ADDR6	ADDR7	GND
20	GND	GND	GND	GND	GND	GND	GND
21	GND	DATA0	DATA1	GND	DATA2	DATA3	GND
22	GND	DATA4	DATA5	GND	DATA6	DATA7	GND
23	GND	DATA8	DATA9	GND	DATA10	DATA11	GND
24	GND	DATA12	DATA13	GND	DATA14	DATA15	GND
25	GND	GND	GND	GND	GND	GND	GND

MB-873 (1/2)

BOARD NO. 1-678-028-12
LOT NO. 912-
SJX-180_MB-873_002_1

BVE-700 (SY) : S/N 10001 and Higher

CN-1915

CN405							
	Z	A	B	C	D	E	F
1	GND	GND	GND	GND	GND	GND	GND
2	GND	W1X_TX+	W1X_TX-	GND	W1X_RX+	W1X_RX-	GND
3	GND	GND	GND	GND	GND	GND	GND
4	GND	SW_TX+	SW_TX-	GND	SW_RX+	SW_RX-	GND
5	GND	GND	GND	GND	GND	GND	GND
6	GND	SP_TX+	SP_TX-	GND	SP_RX+	SP_RX-	GND
7	GND						GND
8	GND						GND
9	GND						GND
10	GND						GND
11	GND						GND
12							
13							
14							
15	GND	GND	GND	GND	GND	GND	GND
16	GND						GND
17	GND						GND
18	GND						GND
19	GND						GND
20	GND	GND	GND	GND	GND	GND	GND
21	GND						GND
22	GND						GND
23	GND						GND
24	GND						GND
25	GND	GND	GND	GND	GND	GND	GND

CN401							
	Z	A	B	C	D	E	F
1	GND						GND
2	GND						GND
3	GND						GND
4	GND						GND
5	GND						GND
6	GND	GND	GND	GND	GND	GND	GND
7	GND	GND	GND	GND	GND	GND	GND
8	GND						GND
9	GND						GND
10	GND						GND
11	GND						GND
12							
13							
14							
15	GND	GND	GND	GND	GND	GND	GND
16	GND	P1_TX+	P1_TX-	GND	P1_RX+	P1_RX-	GND
17	GND						GND
18	GND						GND
19	GND	GND	GND	GND	GND	GND	GND
20	GND	P2_TX+	P2_TX-	GND	P2_RX+	P2_RX-	GND
21	GND	GND	GND	GND	GND	GND	GND
22	GND	P3_TX+	P3_TX-	GND	P3_RX+	P3_RX-	GND
23	GND	GND	GND	GND	GND	GND	GND
24	GND	REC_TX+	REC_TX-	GND	REC_RX+	REC_RX-	GND
25	GND	GND	GND	GND	GND	GND	GND

CN1				
	A	B	C	D
1	AC_N	AC_N	AC_N	AC_N
2	AC_N	AC_N	AC_N	AC_N
3	AC_N	AC_N	AC_N	AC_N
4	AC_N	AC_N	AC_N	AC_N
5	AC_N	AC_N	AC_N	AC_N
6	AC_N	AC_N	AC_N	AC_N

CN2				
	A	B	C	D
1	AC_L	AC_L	AC_L	AC_L
2	AC_L	AC_L	AC_L	AC_L
3	AC_L	AC_L	AC_L	AC_L
4	AC_L	AC_L	AC_L	AC_L
5	AC_L	AC_L	AC_L	AC_L
6	AC_L	AC_L	AC_L	AC_L

CN3				
	A	B	C	D
1	+12V	+12V	+12V	+12V
2	+12V	+12V	+12V	+12V
3	+12V	+12V	+12V	+12V
4	+12V	+12V	+12V	FAN+12V
5	+12V	+12V	+12V	FAN+12V
6	+12V	+12V	+12V	FAN+12V

CN4				
	A	B	C	D
1	+12V	+12V	GND	GND
2	+12V	+12V	GND	GND
3	+12V	+12V	GND	GND
4	+12V	GND	GND	GND
5	+12V	GND	GND	GND
6	+12V	GND	GND	GND

CN7				
	A	B	C	D
1	GND	GND	GND	AC_ERR
2	GND	GND	GND	DC_ERR
3	GND	GND	GND	FAN_ERR
4	GND	GND	GND	G_LED
5	GND	GND	GND	R_LED
6	GND	GND	(+5)	(PC)

CN8		
1	AC_N	
3	AC_L	

CN9		
1	FAN+12V	
2	FAN_ERR_R	
3	GND	

CN10		
1		
2		
3	FAN+12V	
4	FAN+12V	
5	FAN_ERR_S	
6	FAN_ERR_S	
7	GND	
8	GND	

CN11 NW				
	A	B	C	D
1	+12V	+12V	GND	GND
2	+12V	+12V	GND	GND
3	+12V	+12V	GND	GND
4	+12V	GND	GND	GND
5	+12V	GND	GND	GND
6	+12V	FAN_ERR_U	GND	GND

CN103		
1	PLAY1	
2	PLAY2	
3	AUX	
4	REC	
5	TITLE	
6		

CN106		
1	PGM1	
2	PGM2	
3	MON1	

MB-873 (2/2)

BOARD NO. 1-678-028-12
LOT NO. 912-
SJX-180_MB-873_002_2

BVE-700 (SY) : S/N 10001 and Higher

CN401						
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2	REC_TX+	REC_TX-	GND	REC_RX+	REC_RX-	
3	GND	GND	GND	GND	GND	GND
4	P3_TX+	P3_TX-	GND	P3_RX+	P3_RX-	
5	GND	GND	GND	GND	GND	GND
6	P2_TX+	P2_TX-	GND	P2_RX+	P2_RX-	
7	GND	GND	GND	GND	GND	GND
8						
9						GND
10	P1_TX+	P1_TX-	GND	P1_RX+	P1_RX-	
11	GND	GND	GND	GND	GND	GND
12						
13						GND
14						
15						GND
16						
17						GND
18						
19	GND	GND	GND	GND	GND	GND
20	GND	GND	GND	GND	GND	
21						GND
22						
23						GND
24						
25						GND

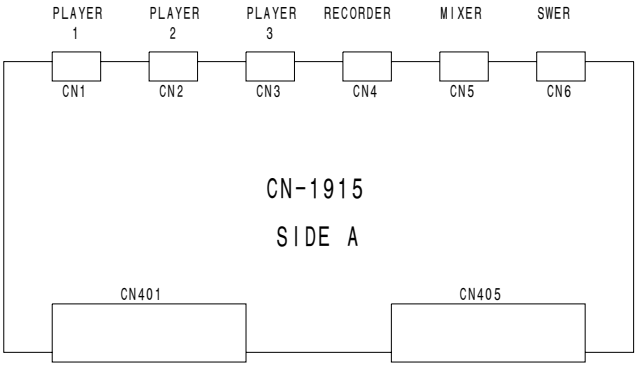
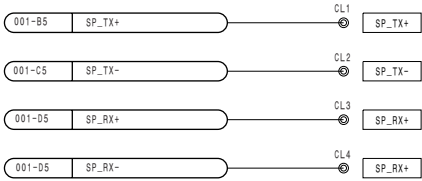
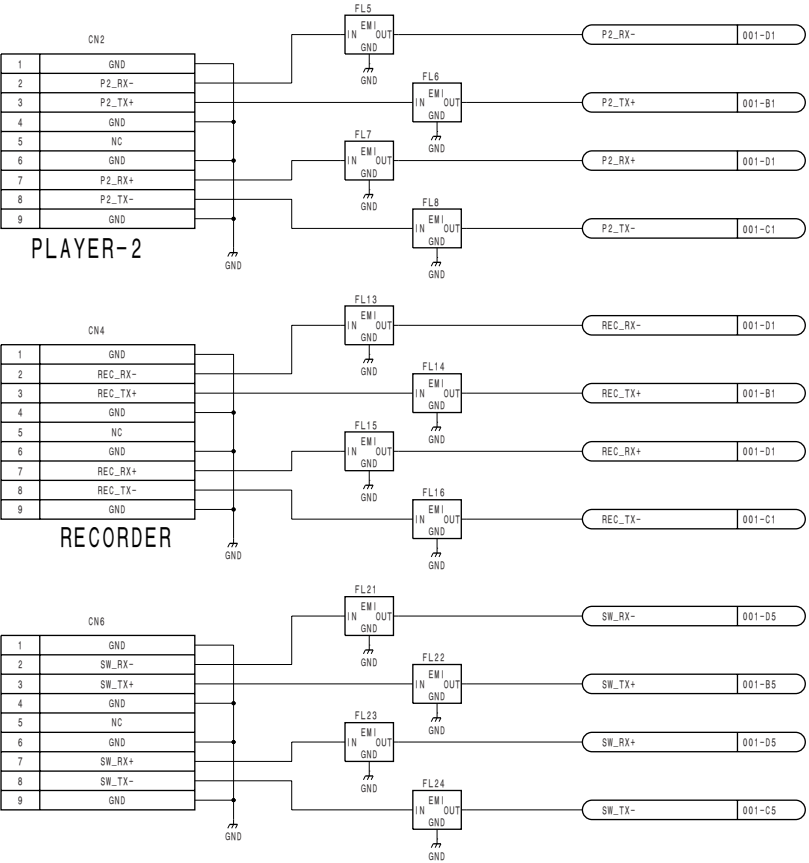
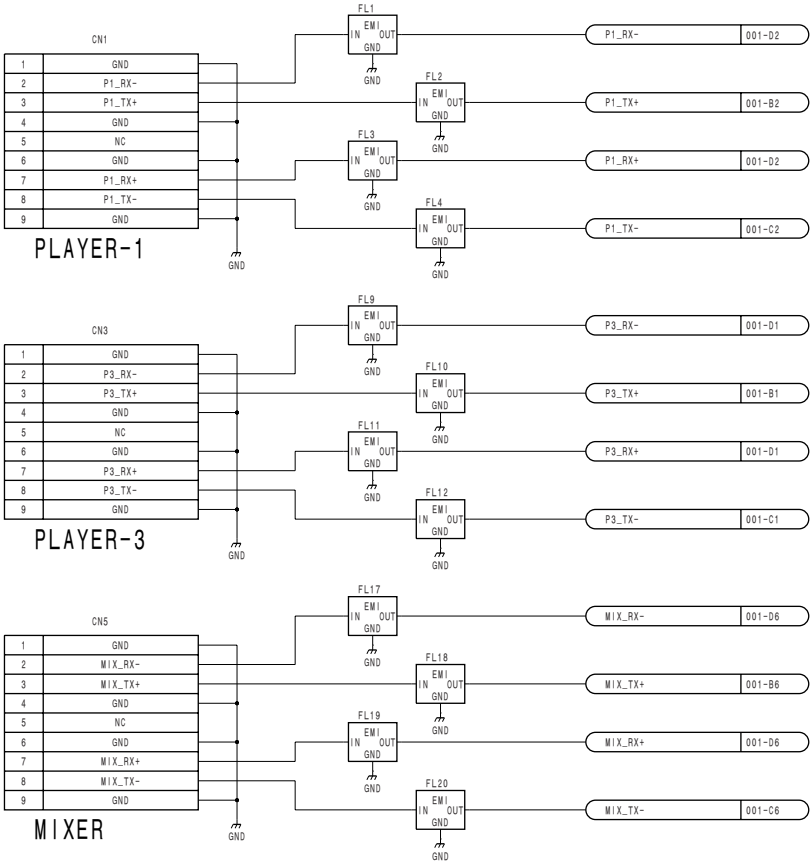
MOTHER BOARD CONNECTOR

CN405						
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2						
3						GND
4						
5						GND
6	GND	GND	GND	GND	GND	
7						GND
8						
9						GND
10						
11	GND	GND	GND	GND	GND	GND
12						
13						GND
14						
15						GND
16						
17						GND
18						
19						GND
20	SP_TX+	SP_TX-	GND	SP_RX+	SP_RX-	
21	GND	GND	GND	GND	GND	GND
22	SW_TX+	SW_TX-	GND	SW_RX+	SW_RX-	
23	GND	GND	GND	GND	GND	GND
24	MIX_TX+	MIX_TX-	GND	MIX_RX+	MIX_RX-	
25	GND	GND	GND	GND	GND	GND

MOTHER BOARD CONNECTOR

CN-1915 (1/2)
BOARD NO. 1-678-030-11
LOT NO. 912-
SJX-180_CN-1915_002_1

BVE-700 (SY) : S/N 10001 and Higher



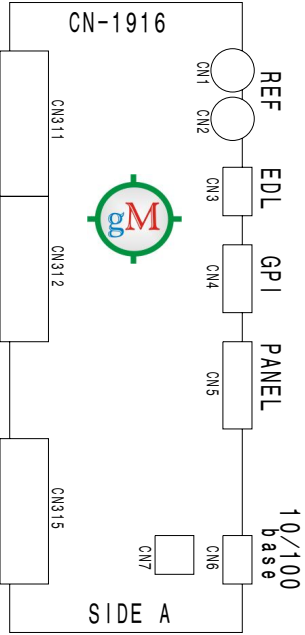
CN-1915 (2/2)
BOARD NO. 1-678-030-11
LOT NO. 912-
SJX-180_CN-1915_002_2

BVE-700 (SY) : S/N 10001 and Higher

CN311						
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2						
3						GND
4						
5						GND
6						
7						GND
8	PANEL12V	PANEL12V	PANEL12V	PANEL12V	PANEL12V	
9	GND	GND	GND	GND	GND	GND
10	ICXXI	ICGCLKI	GND	ICGDATAI	ICGCSI	
11	IT_SPR0I	IT_SPR1I	GND	IT_SPR2I	IT_SPR3I	GND
12						
13						GND
14						
15	GND	GND	GND	GND	REF	GND
16	IFMCK+	IFMCK-	GND	GND	GND	
17	GND	GND	GND	GND	GND	GND
18	ICK37A+	ICK37A-	GND	ICK37B+	ICK37B-	
19	IFUSEI	IFAN_ERR_RI	IFAN_ERR_LI	IFAN_ERR_SI	IFUSE_LOI	GND
20	GND	GND	GND	GND	GND	
21	IAC_ERRI	IDC_ERRI	IFAN_ERRI	IG_LEDI	IR_LEDI	GND
22	(+12V)	(+12V)	(+12V)	(+12V)	(+12V)	
23	(+12V)	(+12V)	(+12V)	(+12V)	(+12V)	GND
24	(+12V)	(+12V)	(+12V)	(+12V)	(+12V)	
25	(+12V)	(+12V)	(+12V)	(+12V)	(+12V)	GND

CN312						
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2	GND	GND	GND	GND	GND	
3	ISP_TX+	ISP_TX-	GND	ISP_RX+	ISP_RX-	GND
4	GND	GND	GND	GND	GND	
5	ISW_TX+	ISW_TX-	GND	ISW_RX+	ISW_RX-	GND
6	GND	GND	GND	GND	GND	
7	IMIX_TX+	IMIX_TX-	GND	IMIX_RX+	IMIX_RX-	GND
8	GND	GND	GND	GND	GND	
9	IREC_TX+	IREC_TX-	GND	IREC_RX+	IREC_RX-	GND
10	GND	GND	GND	GND	GND	
11	IP3_TX+	IP3_TX-	GND	IP3_RX+	IP3_RX-	GND
12	GND	GND	GND	GND	GND	
13	IP2_TX+	IP2_TX-	GND	IP2_RX+	IP2_RX-	GND
14	GND	GND	GND	GND	GND	
15	IP1_TX+	IP1_TX-	GND	IP1_RX+	IP1_RX-	GND
16	GND	GND	GND	GND	GND	
17	PANEL_TX+	PANEL_TX-	GND	PANEL_RX+	PANEL_RX-	GND
18	GND	GND	GND	GND	GND	
19	GPIO_T1	GPIO_T2	GND	USB+	USB-	GND
20	GND	GND	GND	GND	GND	
21	GPIO_R1	GPIO_R1R	GND	GPIO_R2	GPIO_R2R	GND
22	GND	GND	GND	GND	GND	
23	GP11_T1	GP11_T2	GND	GP11_T3	GP11_T4	GND
24	GND	GND	GND	GND	GND	
25	EDL_RXD	EDL_RTS	GND	EDL_TXD	EDL_CTS	GND

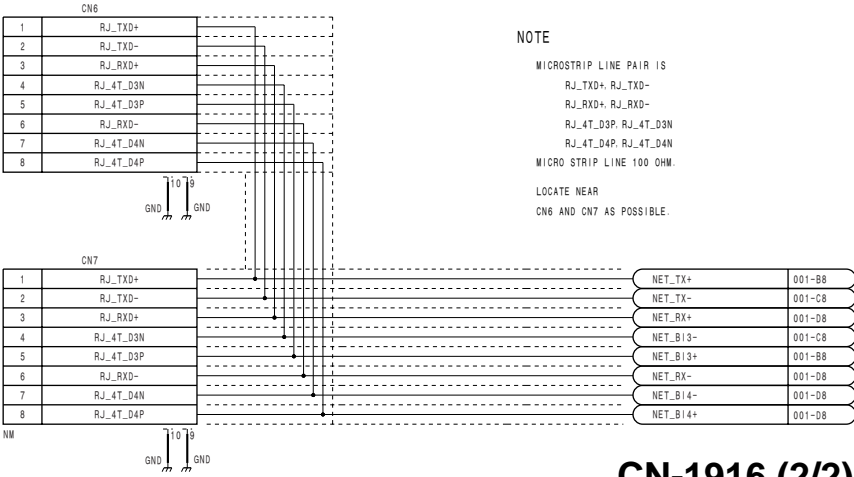
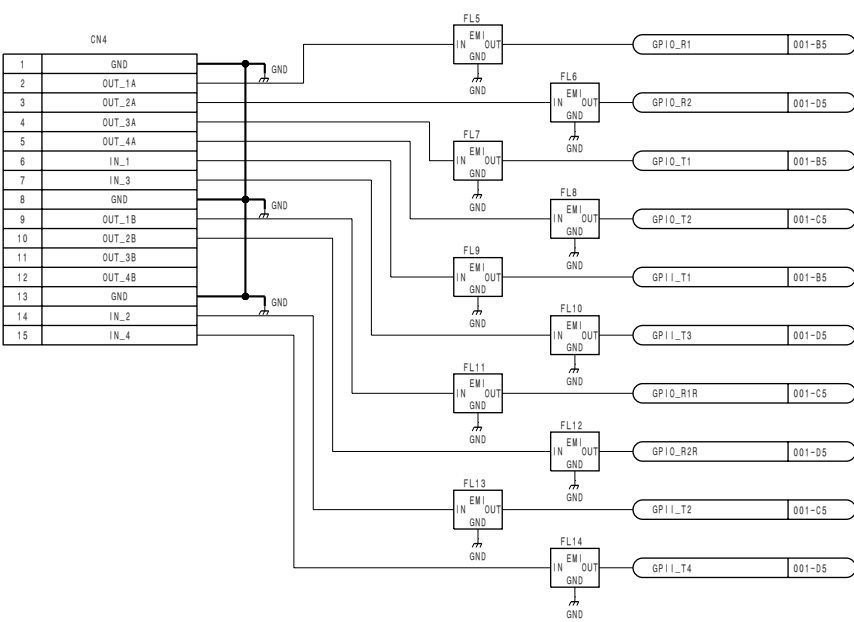
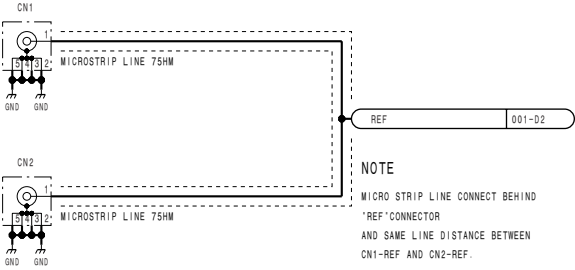
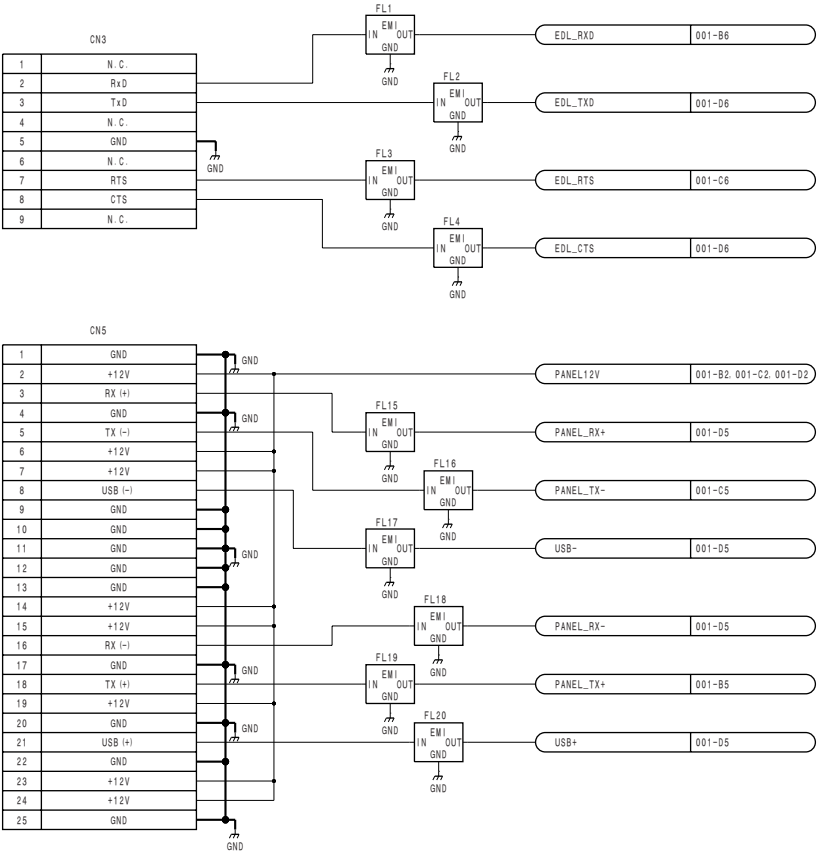
CN315						
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2	IDATA12I	IDATA13I	GND	IDATA14I	IDATA15I	
3	IDATA8I	IDATA9I	GND	IDATA10I	IDATA11I	GND
4	IDATA4I	IDATA5I	GND	IDATA6I	IDATA7I	
5	IDATA0I	IDATA1I	GND	IDATA2I	IDATA3I	GND
6	GND	GND	GND	GND	GND	
7	IADRS4I	IADRS5I	GND	IADRS6I	IADRS7I	GND
8	IADRS0I	IADRS1I	GND	IADRS2I	IADRS3I	
9	IIOSEL	IMIXSEL	GND	ISTATUS0I	ISTATUS1I	GND
10	IRDI	IWRI	GND	IDIRI	IRST-	
11	GND	GND	GND	GND	GND	GND
12						
13						GND
14						
15	IC_SPR16I	IC_SPR17I	GND	IC_SPR18I	IC_SPR19I	GND
16	IC_SPR12I	IC_SPR13I	GND	IC_SPR14I	IC_SPR15I	
17	IC_SPR8I	IC_SPR9I	GND	IC_SPR10I	IC_SPR11I	GND
18	IC_SPR4I	IC_SPR5I	GND	IC_SPR6I	IC_SPR7I	
19	IC_SPROI	IC_SPR1I	GND	IC_SPR2I	IC_SPR3I	GND
20	GND	GND	GND	GND	GND	
21						GND
22	GND	GND	GND	GND	GND	
23	NET_B13+	NET_B13-	GND	NET_B14+	NET_B14-	GND
24	NET_TX+	NET_TX-	GND	NET_RX+	NET_RX-	
25	GND	GND	GND	GND	GND	GND



CN-1916 (1/2)

BOARD NO. 1-678-029-11
LOT NO. 912-
SJX-180_CN-1916_002_1

BVE-700 (SY) : S/N 10001 and Higher



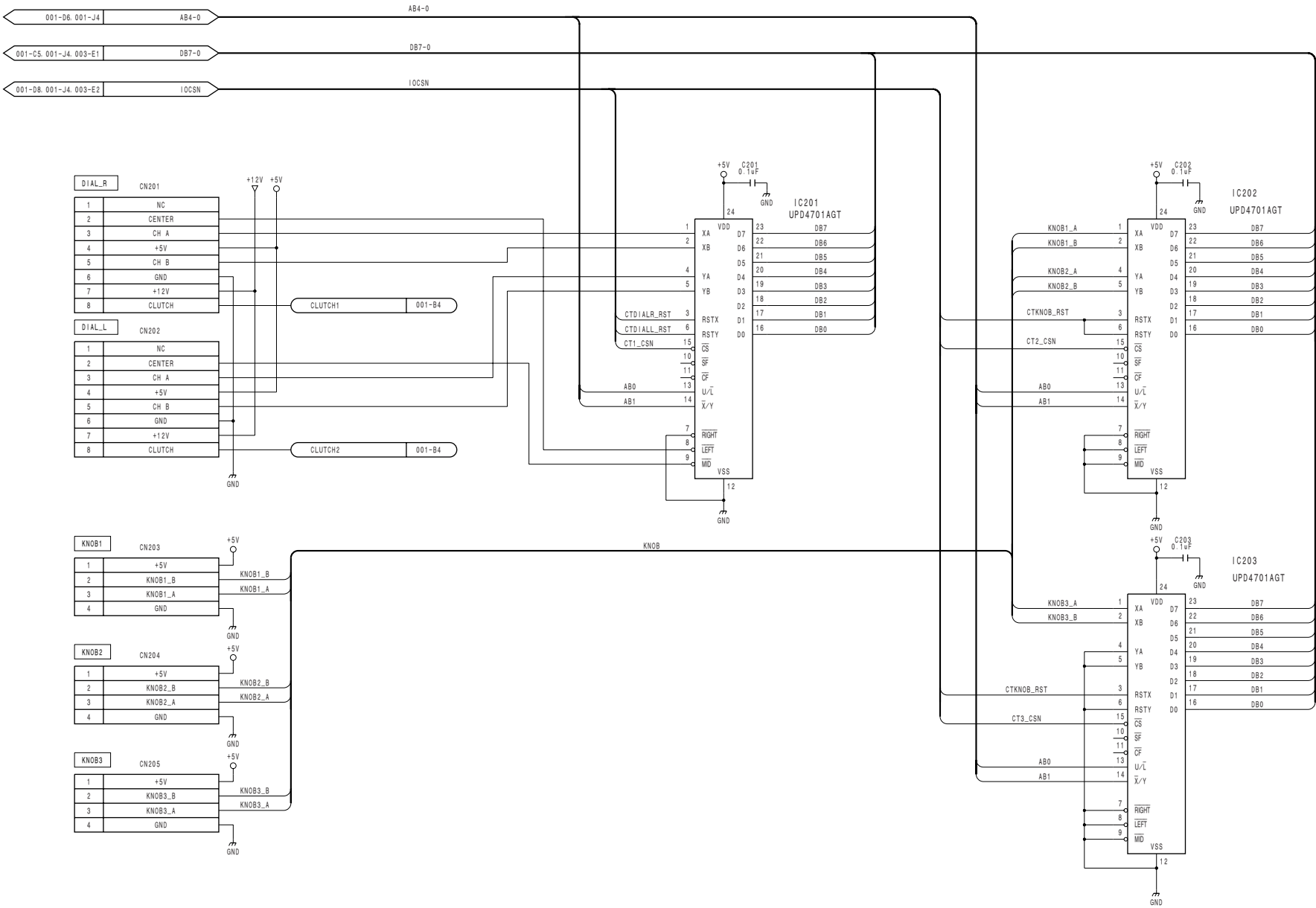
CN-1916 (2/2)
BOARD NO. 1-678-029-11
LOT NO. 912-
SJX-180_CN-1916_002_2

BVE-700 (SY) : S/N 10001 and Higher



LOT NO. 912-
SJX-180_KY-458_003_1

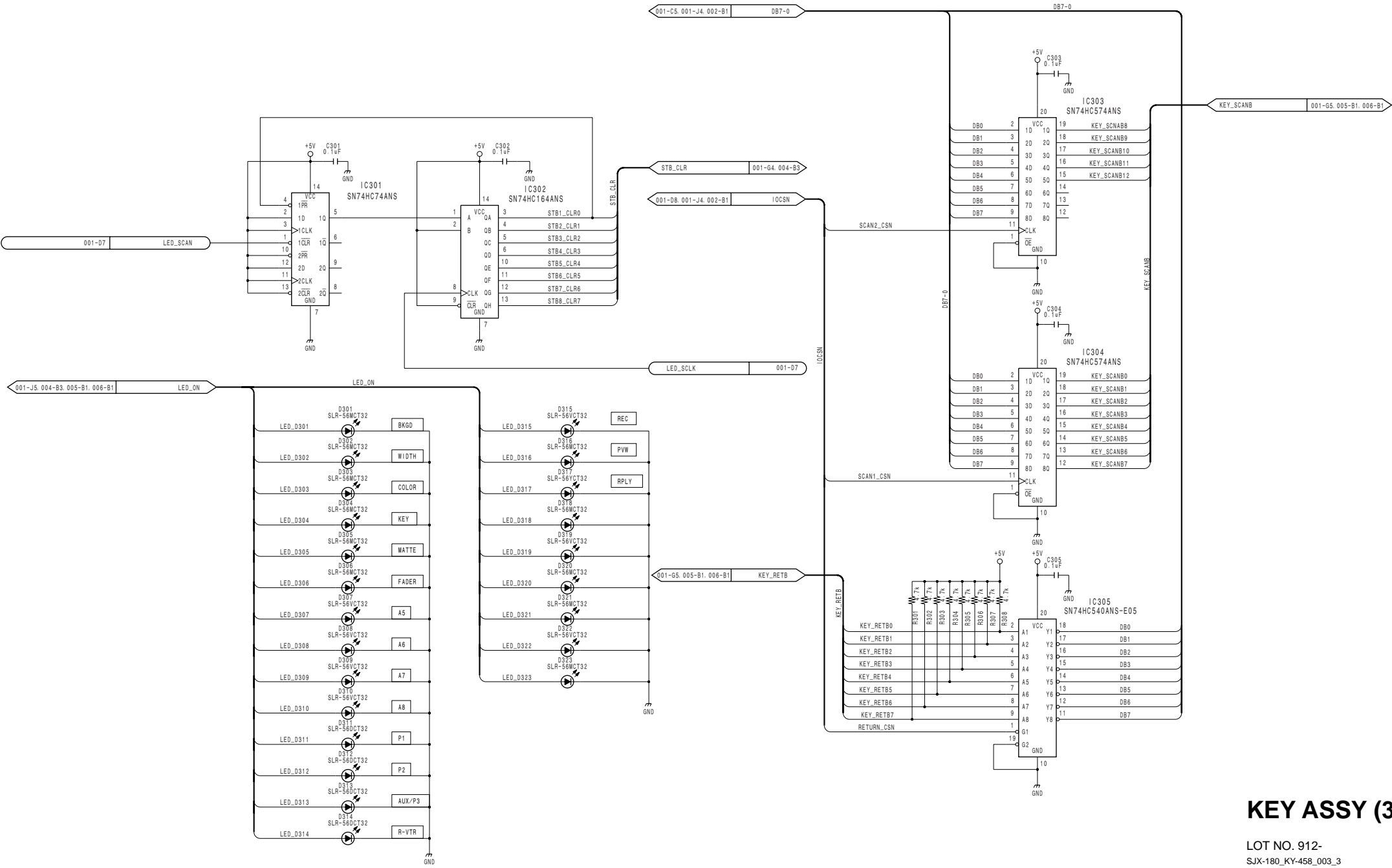
BVE-700 (SY) : S/N 10001 and Higher



KEY ASSY (2/6)

LOT NO. 912-
SJX-180_KY-458_003_2

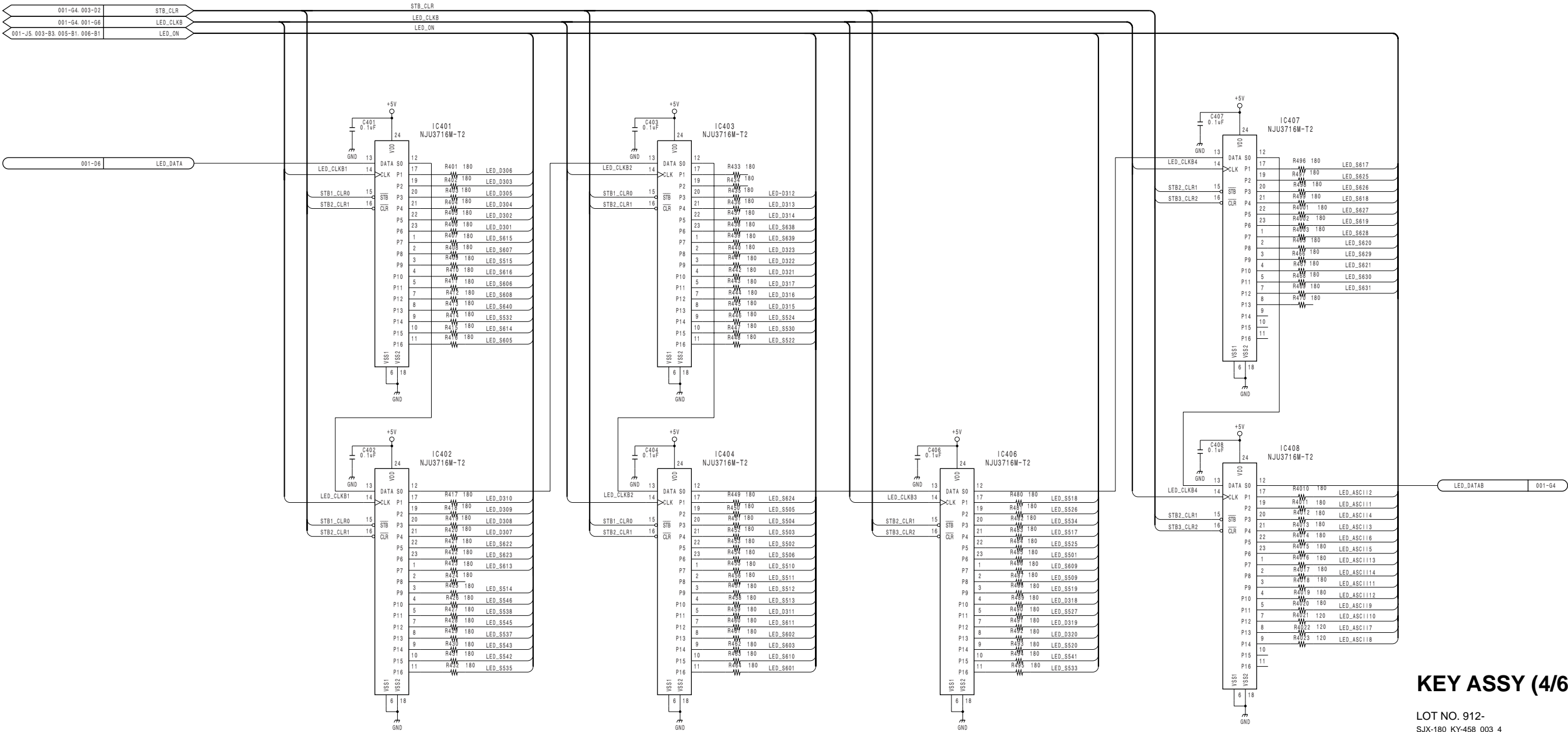
BVE-700 (SY) : S/N 10001 and Higher



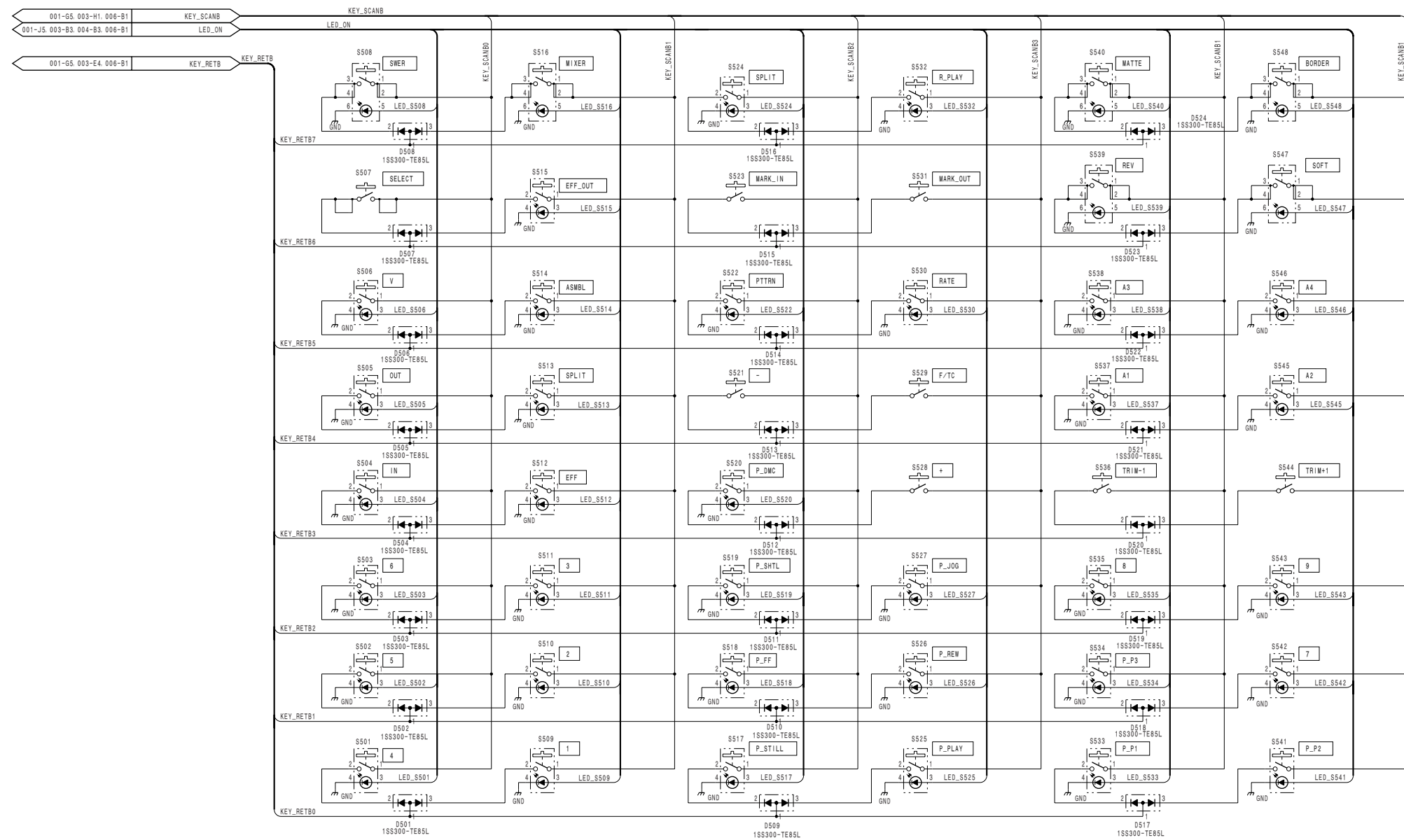
KEY ASSY (3/6)

LOT NO. 912-
SJX-180_KY-458_003_3

BVE-700 (SY) : S/N 10001 and Higher



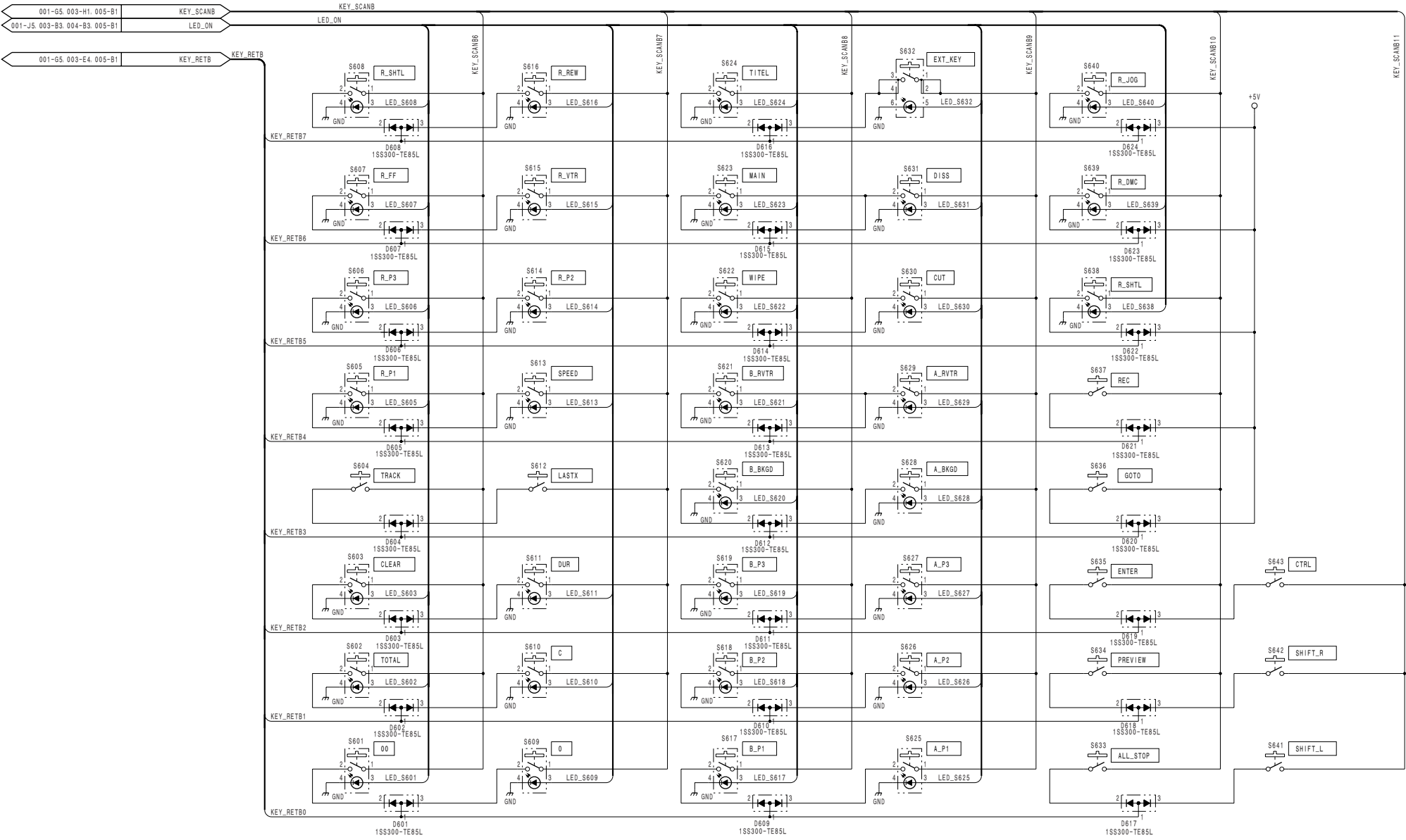
BVE-700 (SY) : S/N 10001 and Higher



KEY ASSY (5/6)

LOT NO. 912-
SJX-180_KY-458_003_5

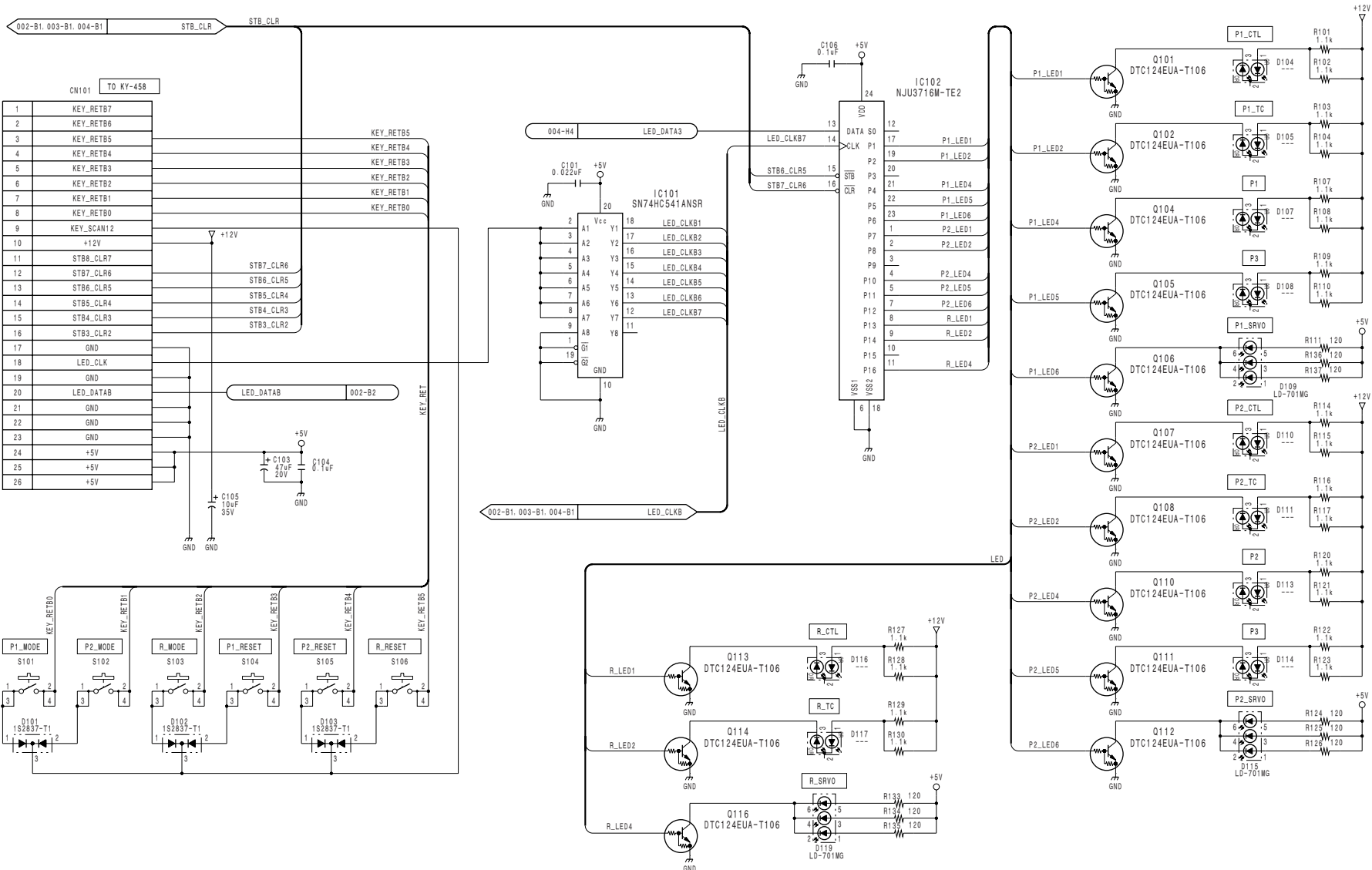
BVE-700 (SY) : S/N 10001 and Higher



KEY ASSY (6/6)

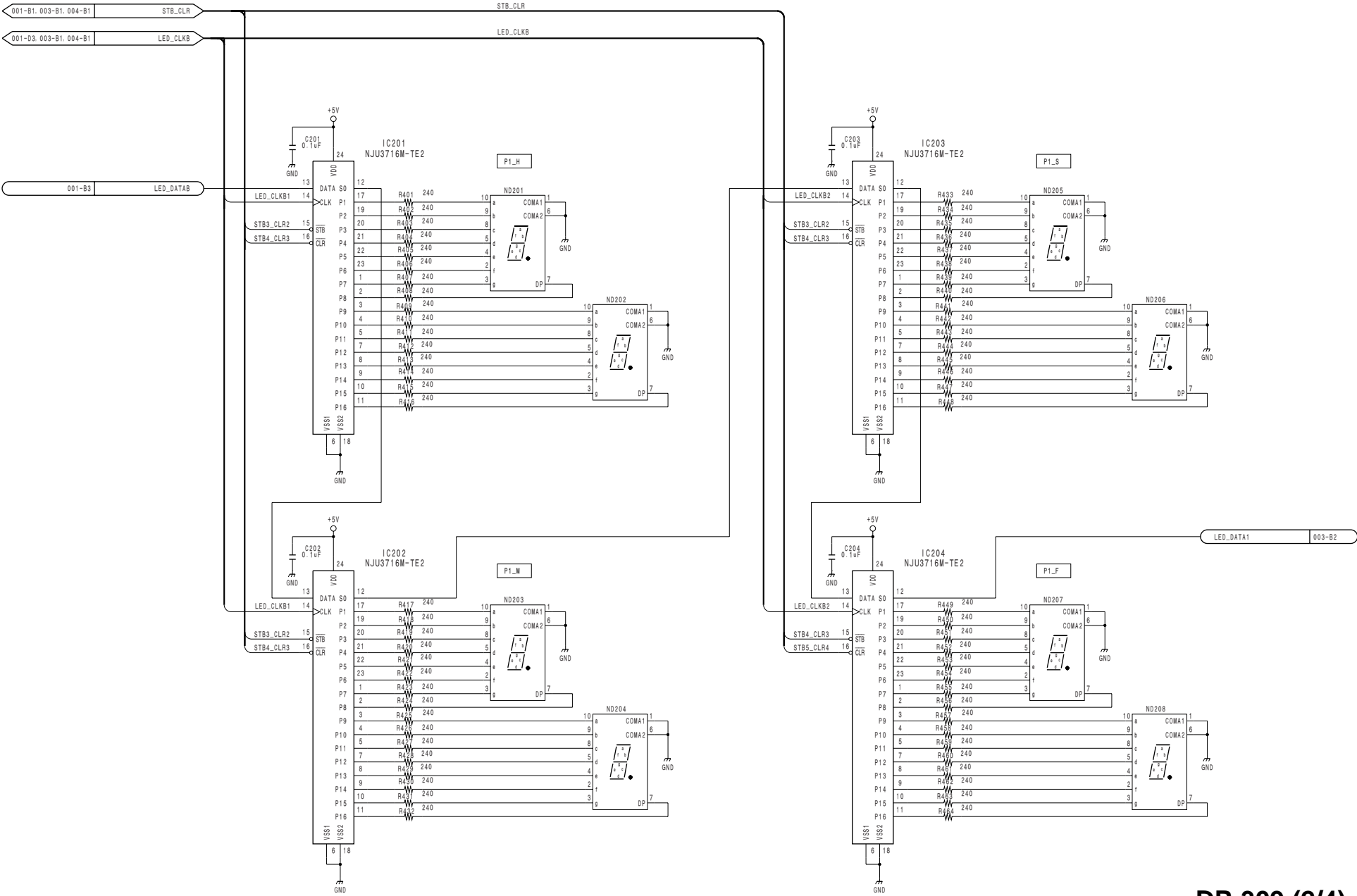
LOT NO. 912-
SJX-180_KY-458_003_6

BVE-700 (SY) : S/N 10001 and Higher



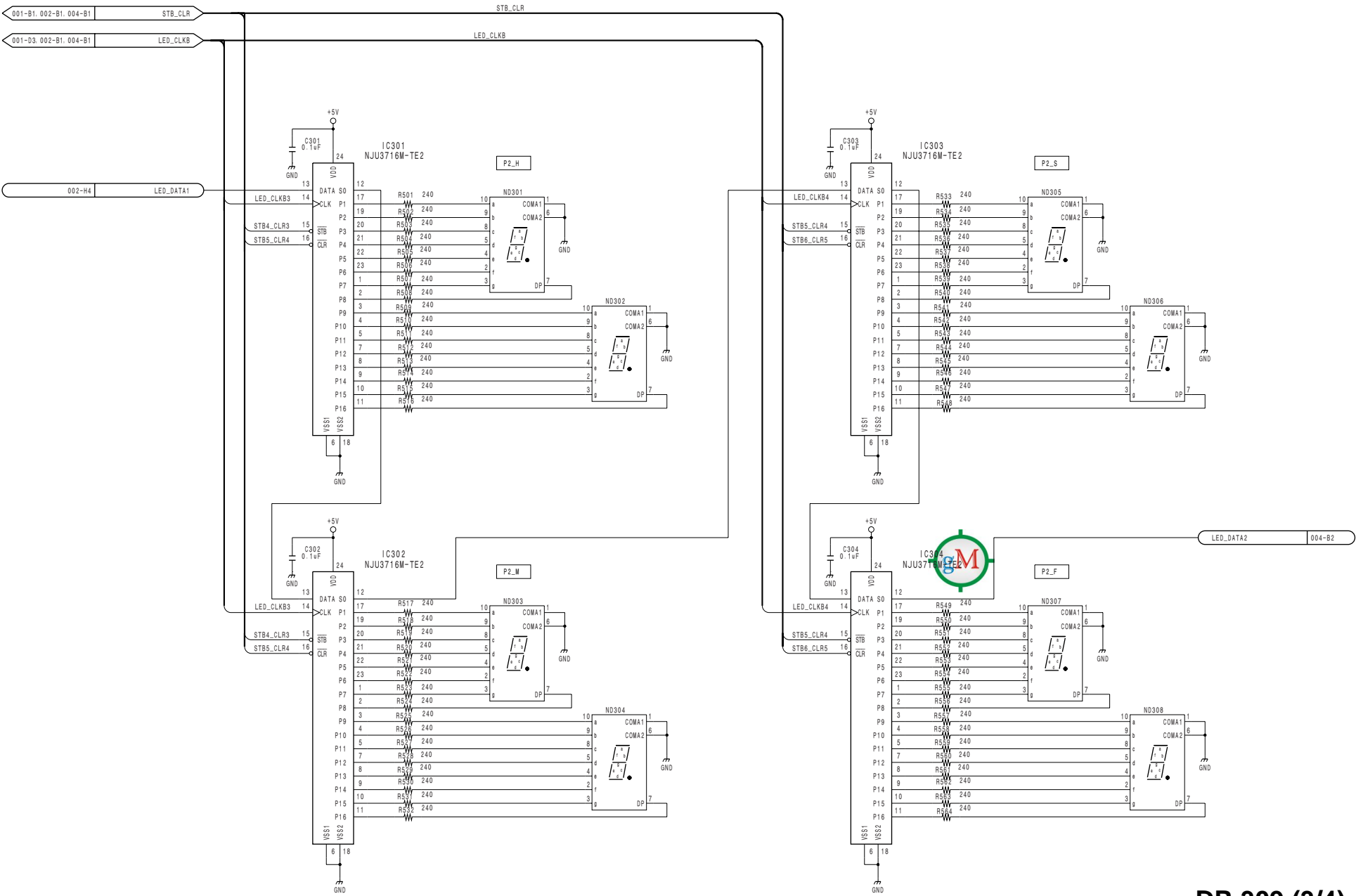
DP-309 (1/4)
BOARD NO. 1-678-007-11
LOT NO. 912-
SJX-180_DP-309_003_1

BVE-700 (SY) : S/N 10001 and Higher



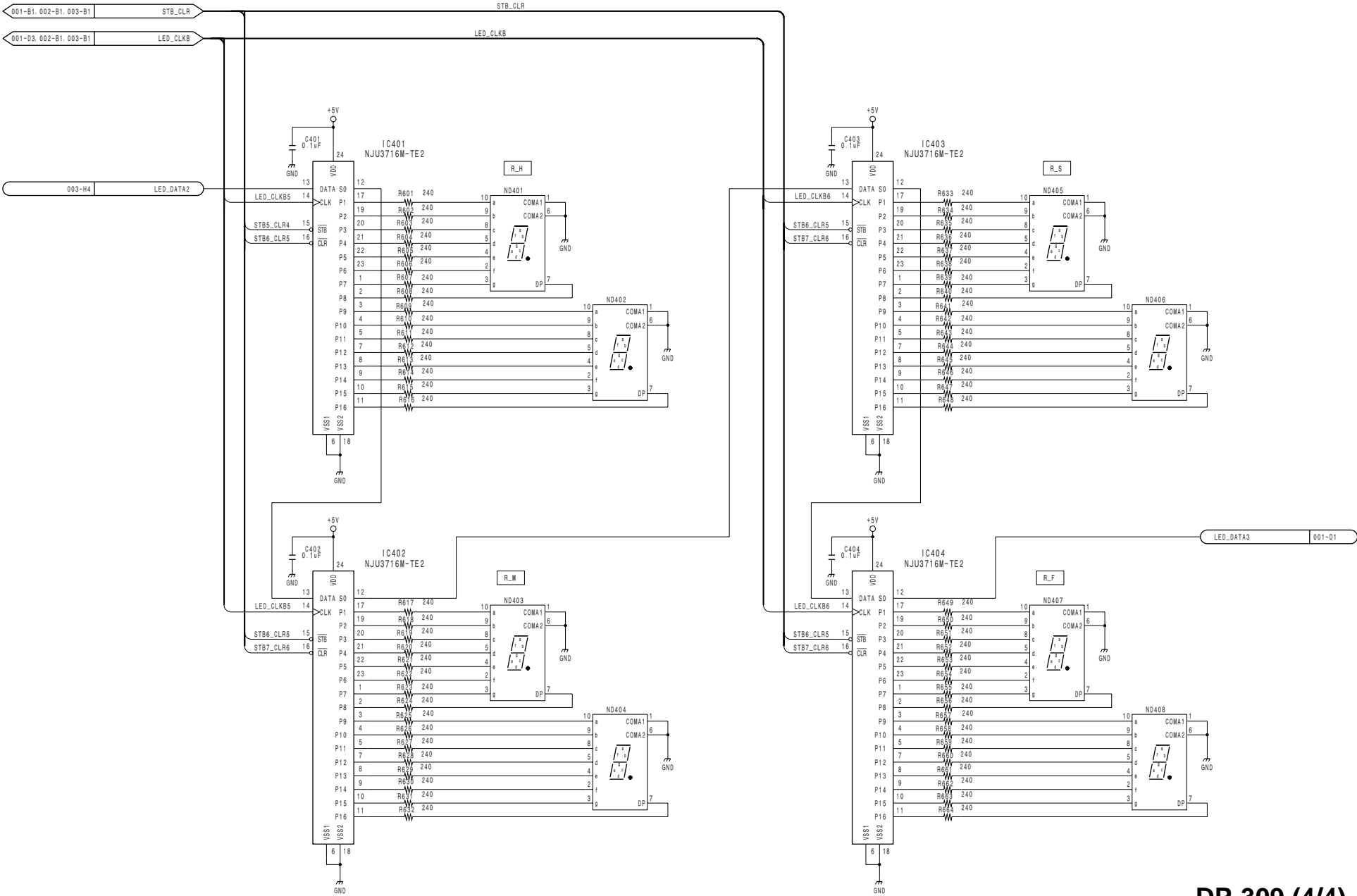
DP-309 (2/4)
BOARD NO. 1-678-007-11
LOT NO. 912-
SJX-180_DP-309_003_2

BVE-700 (SY) : S/N 10001 and Higher



DP-309 (3/4)
BOARD NO. 1-678-007-11
LOT NO. 912-
SJX-180_DP-309_003_3

BVE-700 (SY) : S/N 10001 and Higher



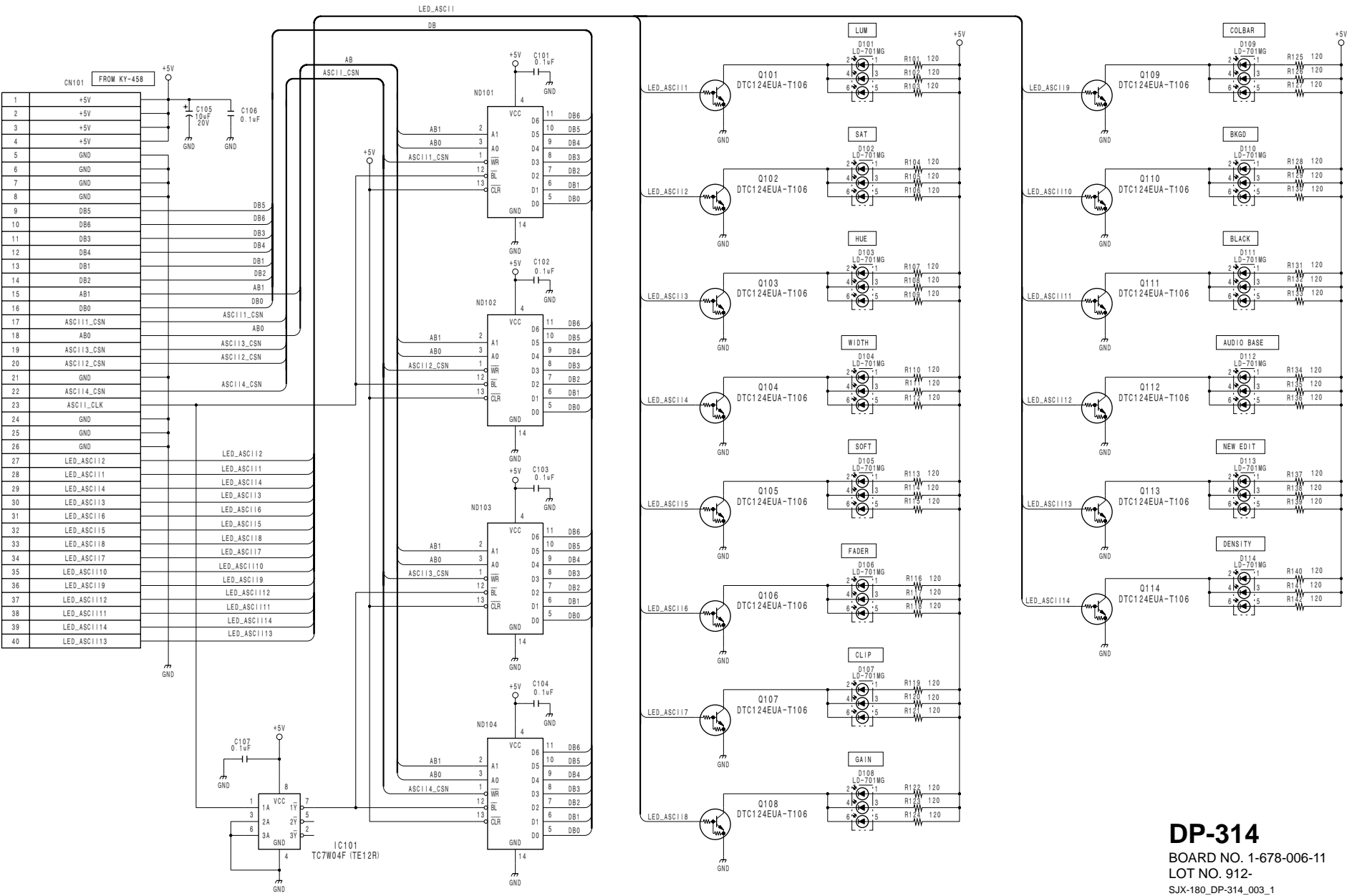
DP-309 (4/4)

BOARD NO. 1-678-007-11

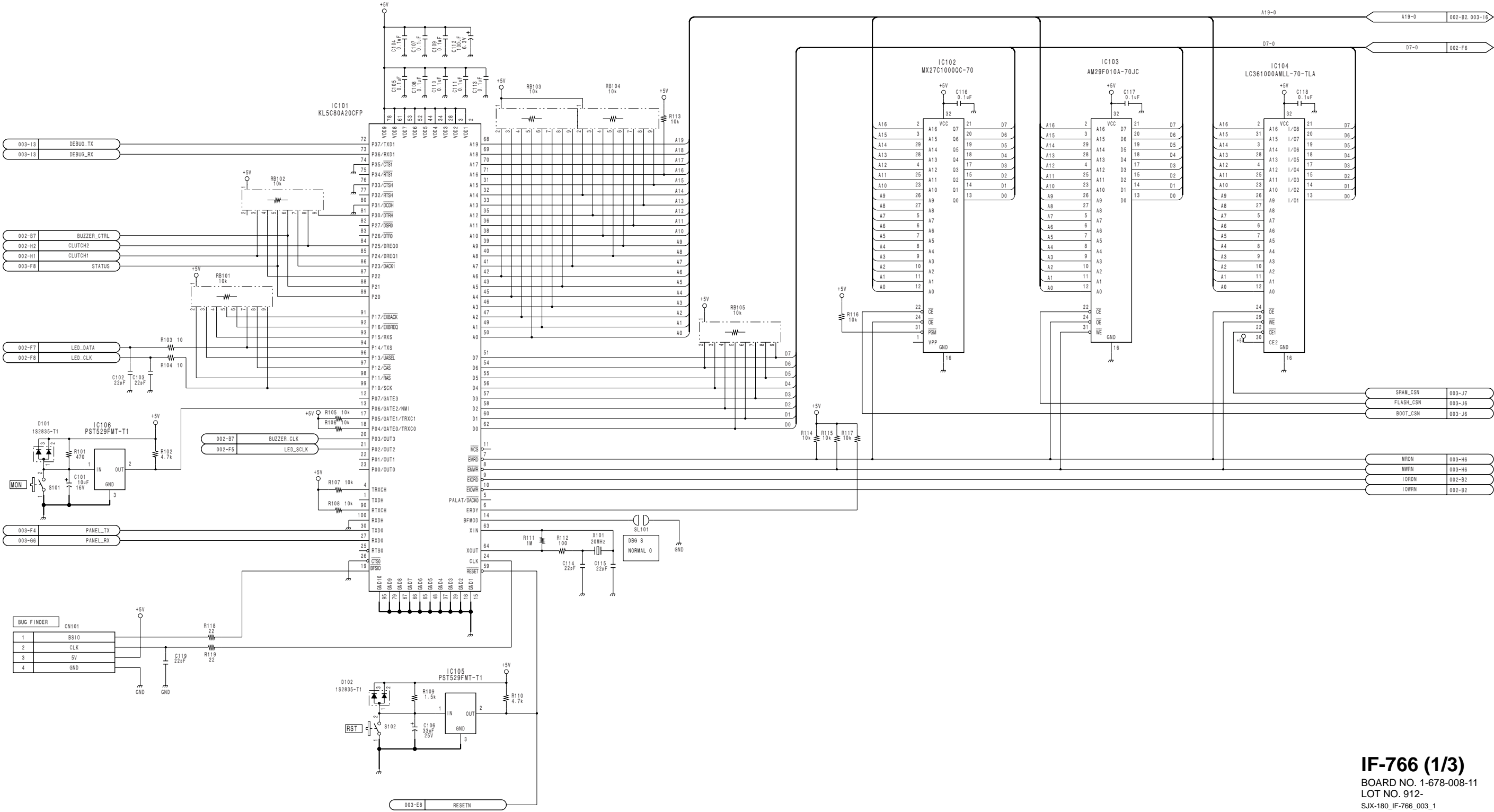
LOT NO. 912-

SJX-180_DP-309_003_4

BVE-700 (SY) : S/N 10001 and Higher

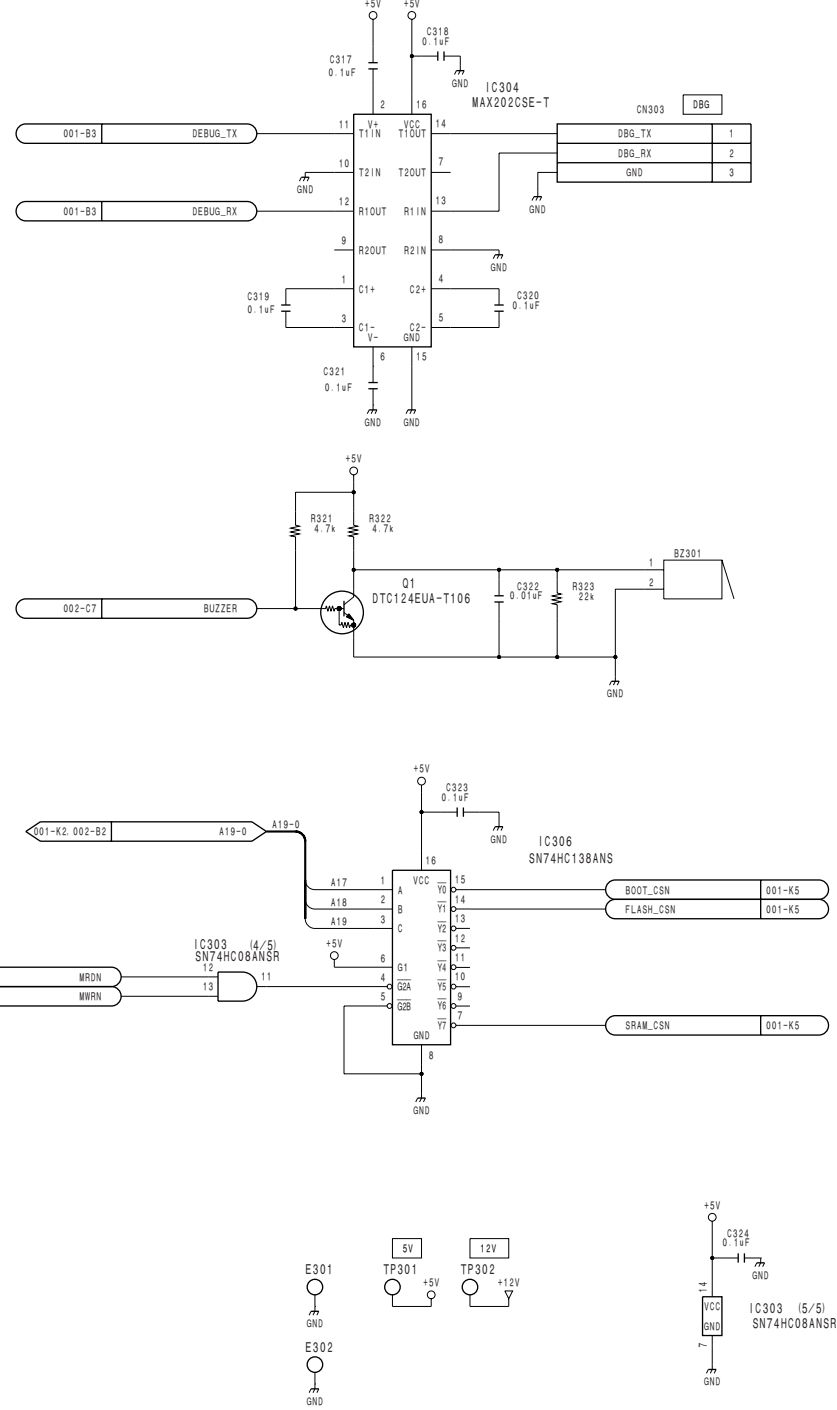
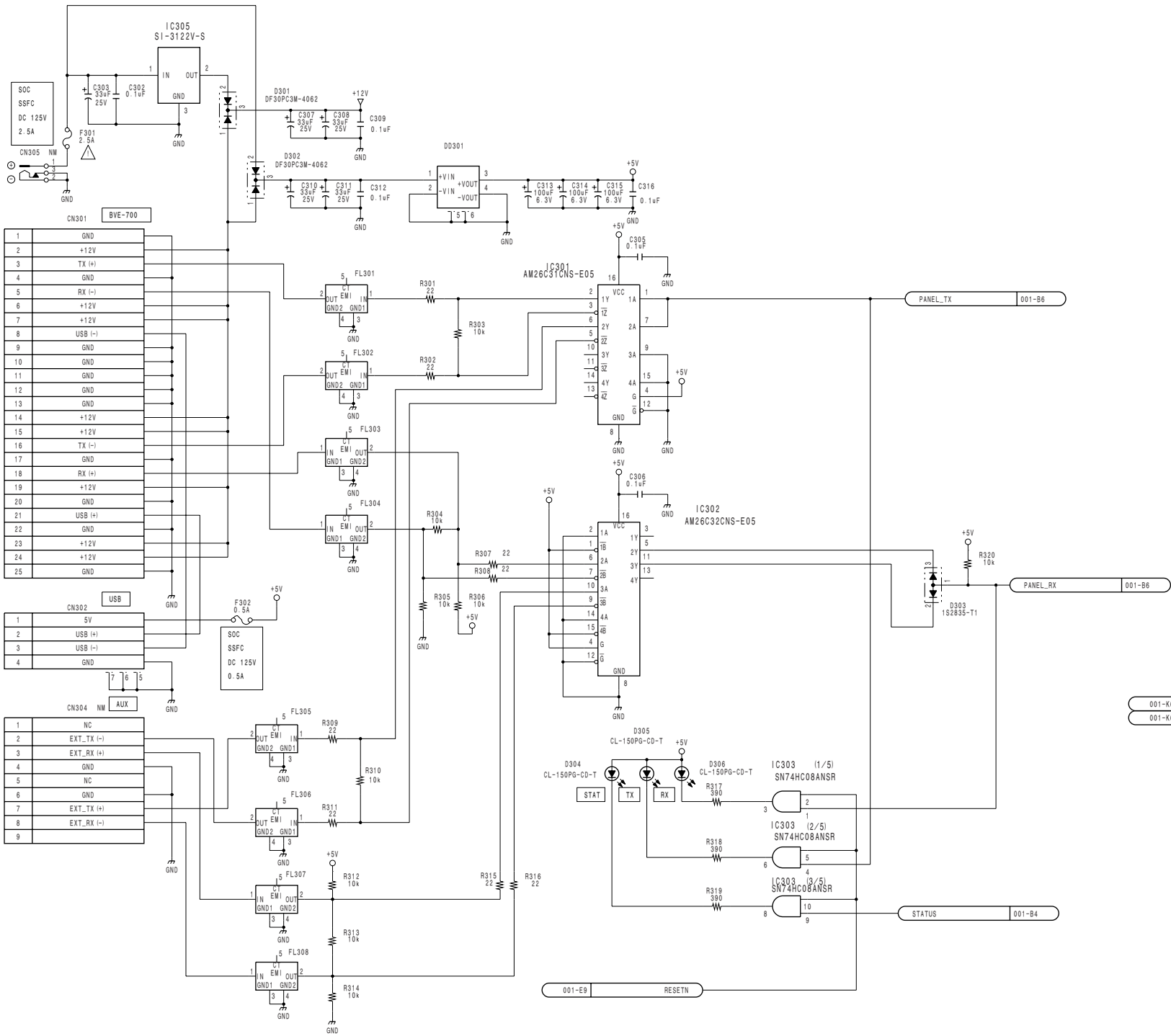


BVE-700 (SY) : S/N 10001 and Higher



IF-766 (1/3)
BOARD NO. 1-678-008-11
LOT NO. 912-
SJX-180_IF-766_003_1

BVE-700 (SY) : S/N 10001 and Higher



IF-766 (3/3)

BOARD NO. 1-678-008-11
LOT NO. 912-
SJX-180_IF-766_003_3

BKE-701 (SY) : S/N 10001 and Higher

1

CN101 (COMPACT PCI CONNECTOR TYPE A WITH UPPER SHIELD)						
	a	b	c	d	e	FG
1	+12V	+12V	+12V	+12V	+12V	GND
2	+12V	+12V	+12V	+12V	+12V	
3	+12V	+12V	+12V	+12V	+12V	GND
4	+12V	+12V	+12V	+12V	+12V	
5		DC_ERR				GND
6	GND	GND	GND	GND	GND	
7	GND	GND	GND	GND	FUSE_IO	GND
8			GND	CK37B+	CK37B-	
9	GND	GND	GND	GND	GND	GND
10			GND	GND	GND	
11	T_SPR0	T_SPR1	GND	GND	GND	GND
12						
13						GND
14						
15	FMCKB+	FMCKB-	GND			GND
16	CKX	CGCLK	GND	CGDATA	CGCS	
17	GND	GND	GND	GND	GND	GND
18						
19						GND
20						
21	GND	GND	GND	GND	GND	GND
22	KSY0	KSY1	GND	KSY2	KSY3	
23	KSY4	KSY5	GND	KSY6	KSY7	GND
24	KSYCK	GND	GND	KSY8	KSY9	
25	GND	GND	GND	GND	GND	GND

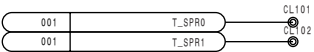
A111 (TYPE A UNDER SHIELD)	
	F
1	
2	GND
3	
4	GND
5	
6	GND
7	
8	GND
9	
10	GND
11	
12	GND
13	
14	GND
15	
16	GND
17	
18	GND
19	
20	GND
21	
22	GND
23	
24	GND
25	

CN102 (COMPACT PCI CONNECTOR TYPE B WITH UPPER SHIELD)						
	a	b	c	d	e	FG
1	KFC0	KFC1	GND	KFC2	KFC3	GND
2	KFC4	KFC5	GND	KFC6	KFC7	
3	KFCCK	GND	GND	KFC8	KFC9	GND
4	GND	GND	GND	GND	GND	
5	KFY0	KFY1	GND	KFY2	KFY3	GND
6	KFY4	KFY5	GND	KFY6	KFY7	
7	KFYCK	GND	GND	KFY8	KFY9	GND
8	GND	GND	GND	GND	GND	
9	BGAC0	BGAC1	GND	BGAC2	BGAC3	GND
10	BGAC4	BGAC5	GND	BGAC6	BGAC7	
11	BGACCK	GND	GND	BGAC8	BGAC9	GND
12	GND	GND	GND	GND	GND	
13	BGAY0	BGAY1	GND	BGAY2	BGAY3	GND
14	BGAY4	BGAY5	GND	BGAY6	BGAY7	
15	BGAYCK	GND	GND	BGAY8	BGAY9	GND
16	GND	GND	GND	GND	GND	
17	BGBC0	BGBC1	GND	BGBC2	BGBC3	GND
18	BGBC4	BGBC5	GND	BGBC6	BGBC7	
19	BGBCCK	GND	GND	BGBC8	BGBC9	GND
20	GND	GND	GND	GND	GND	
21	BGBY0	BGBY1	GND	BGBY2	BGBY3	GND
22	BGBY4	BGBY5	GND	BGBY6	BGBY7	
23	BGBYCK	GND	GND	BGBY8	BGBY9	GND
24	GND	GND	GND	GND	GND	
25	GND	GND	GND	GND	GND	GND

A112 (TYPE B UNDER SHIELD)	
	F
1	
2	GND
3	
4	GND
5	
6	GND
7	
8	GND
9	
10	GND
11	
12	GND
13	
14	GND
15	
16	GND
17	
18	GND
19	
20	GND
21	
22	GND
23	
24	GND
25	

A103 (COMPACT PCI TYPE L DIN6 CAVITY)	
1	PLAY1 IN
2	PLAY2 IN
3	AUX IN
4	REC IN
5	TITLE IN
6	NON CONNECTED

2



3

4

5

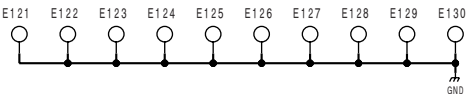
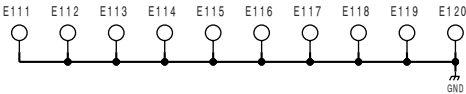
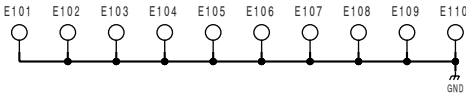
CN104 (COMPACT PCI CONNECTOR TYPE B WITH UPPER SHIELD)						
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2	GND	GND	GND	GND	GND	GND
3	MIXC0	MIXC1	GND	MIXC2	MIXC3	GND
4	MIXC4	MIXC5	GND	MIXC6	MIXC7	GND
5	MIXCCK	GND	GND	MIXC8	MIXC9	GND
6	GND	GND	GND	GND	GND	GND
7	MIXY0	MIXY1	GND	MIXY2	MIXY3	GND
8	MIXY4	MIXY5	GND	MIXY6	MIXY7	GND
9	MIXYCK	GND	GND	MIXY8	MIXY9	GND
10	GND	GND	GND	GND	GND	GND
11			GND			GND
12			GND			GND
13			GND			GND
14	GND	GND	GND	GND	GND	GND
15			GND			GND
16			GND			GND
17			GND			GND
18	GND	GND	GND	GND	GND	GND
19			GND			GND
20			GND			GND
21			GND			GND
22	GND	GND	GND	GND	GND	GND
23			GND			GND
24			GND			GND
25			GND			GND

A114 (TYPE B UNDER SHIELD)	
	F
1	
2	GND
3	
4	GND
5	
6	GND
7	
8	GND
9	
10	GND
11	
12	GND
13	
14	GND
15	
16	GND
17	
18	GND
19	
20	GND
21	
22	GND
23	
24	GND
25	

CN105 (COMPACT PCI CONNECTOR TYPE A WITH UPPER SHIELD)						
	a	b	c	d	e	FG
1	GND	GND	GND	GND	GND	GND
2						GND
3						GND
4						GND
5						GND
6	GND	GND	GND	GND	GND	GND
7			GND			GND
8			GND			GND
9			GND			GND
10			GND			GND
11			GND		STRB	GND
12						GND
13						GND
14						GND
15	GND	GND	GND	GND	GND	GND
16	RD	WR	GND	D1R	RST-	GND
17	IOSEL	MIXSEL	GND	STATUS0	STATUS1	GND
18	ADRS0	ADRS1	GND	ADRS2	ADRS3	GND
19	ADRS4	ADRS5	GND	ADRS6	ADRS7	GND
20	GND	GND	GND	GND	GND	GND
21	DATA0	DATA1	GND	DATA2	DATA3	GND
22	DATA4	DATA5	GND	DATA6	DATA7	GND
23	DATA8	DATA9	GND	DATA10	DATA11	GND
24	DATA12	DATA13	GND	DATA14	DATA15	GND
25	GND	GND	GND	GND	GND	GND

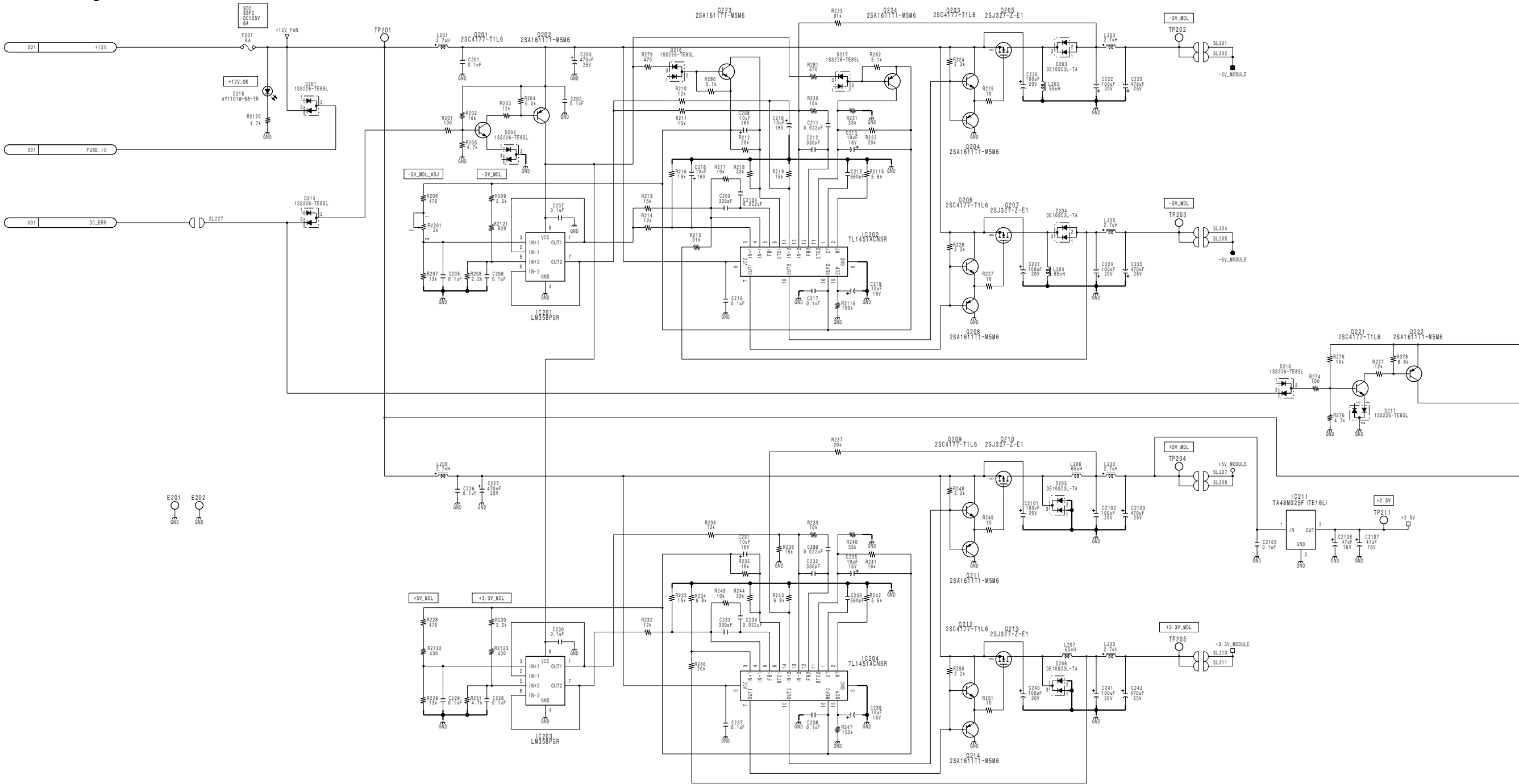
A115 (TYPE A UNDER SHIELD)	
	F
1	
2	GND
3	
4	GND
5	
6	GND
7	
8	GND
9	
10	GND
11	
12	GND
13	
14	GND
15	
16	GND
17	
18	GND
19	
20	GND
21	
22	GND
23	
24	GND
25	

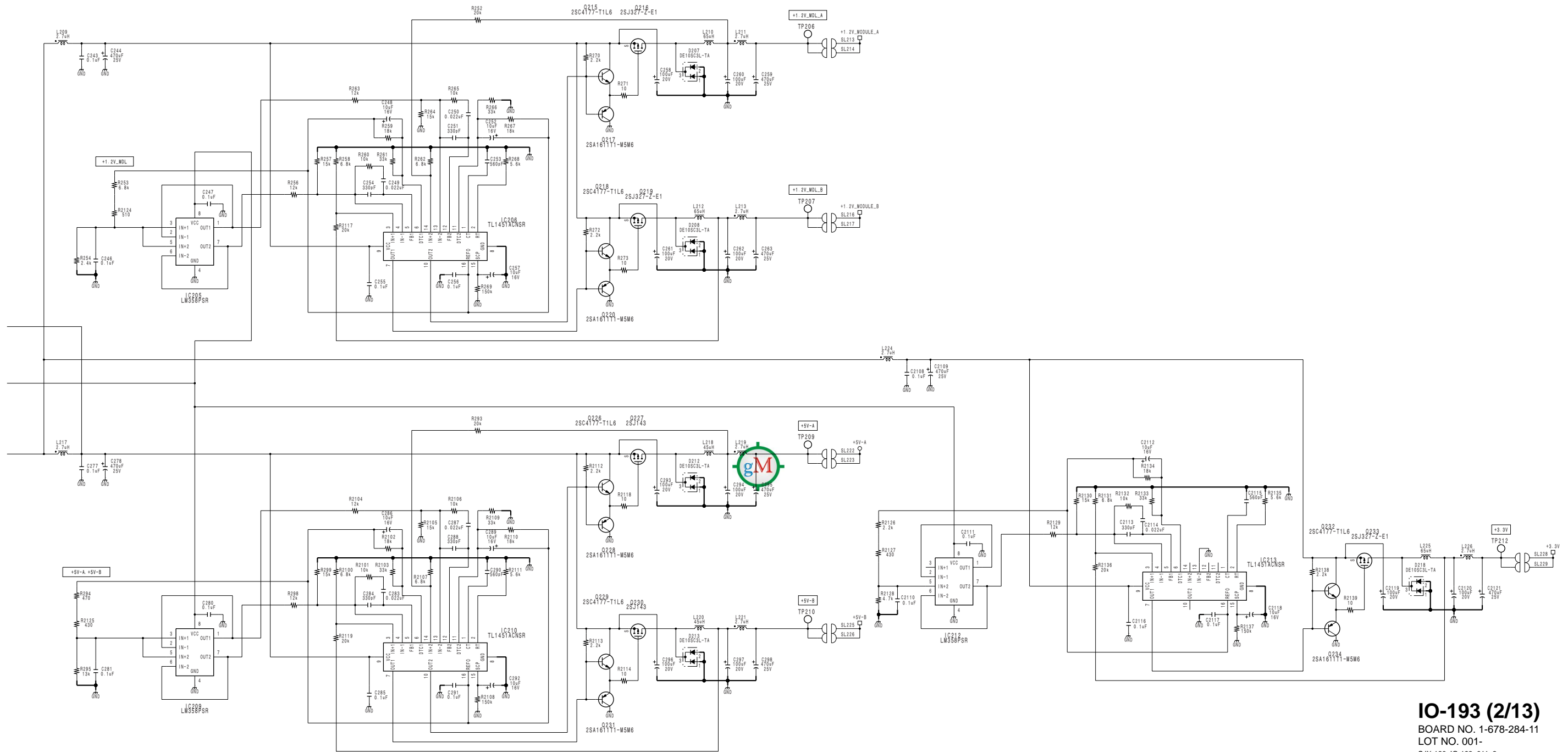
A106 (COMPACT PCI TYPE N DIN3 CAVITY)	
1	PGM1 OUT
2	PGM2 OUT
3	MON1 OUT



IO-193 (1/13)
BOARD NO. 1-678-284-11
LOT NO. 001-
SJX-180_IO-193_011_1

BKE-701 (SY) : S/N 10001 and Higher

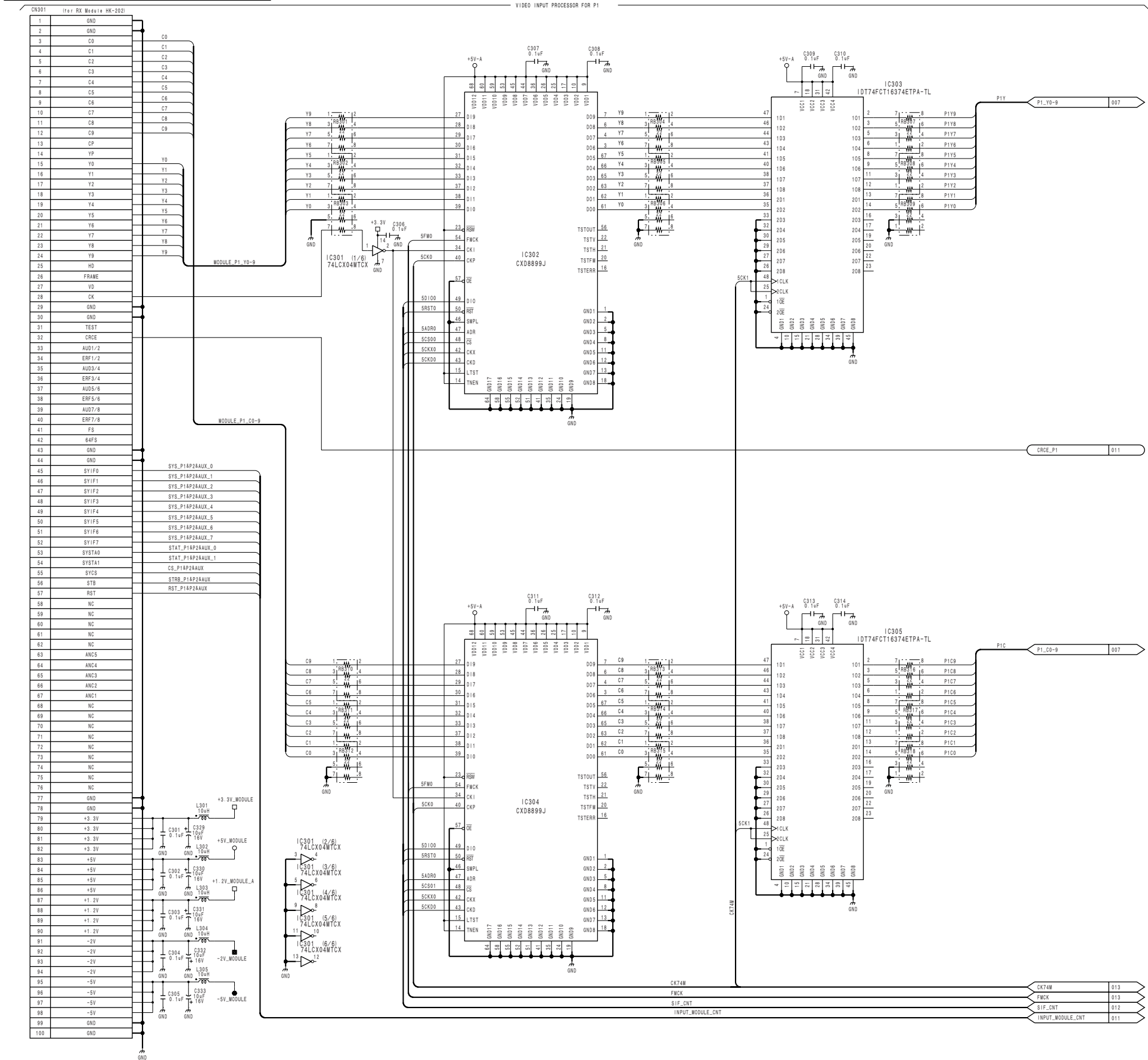


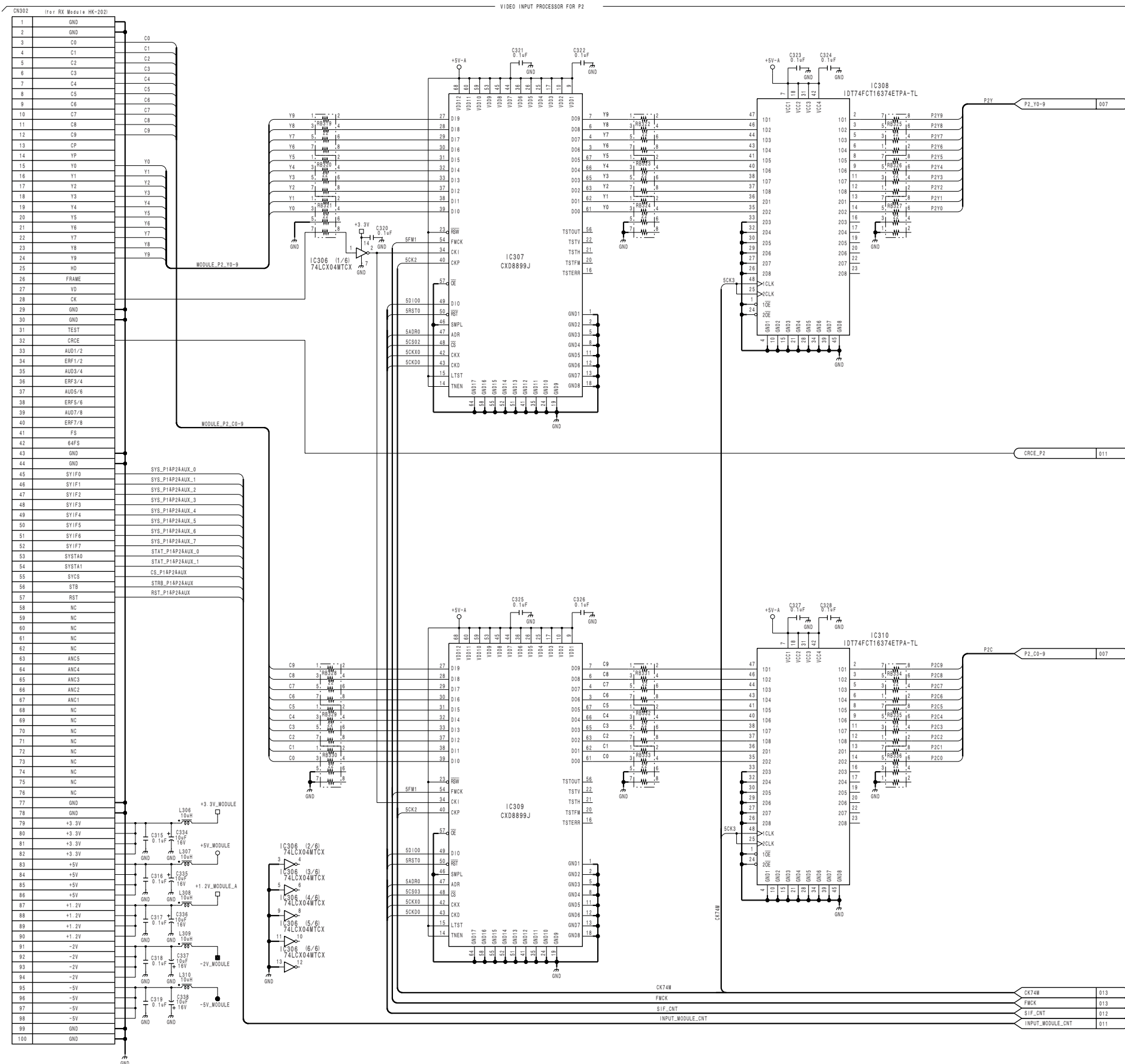


IO-193 (2/13)
 BOARD NO. 1-678-284-11
 LOT NO. 001-
 SJX-180_IO-193_011_2

BKE-701 (SY) : S/N 10001 and Higher

VIDEO INPUT PROCESSOR (P1/P2)

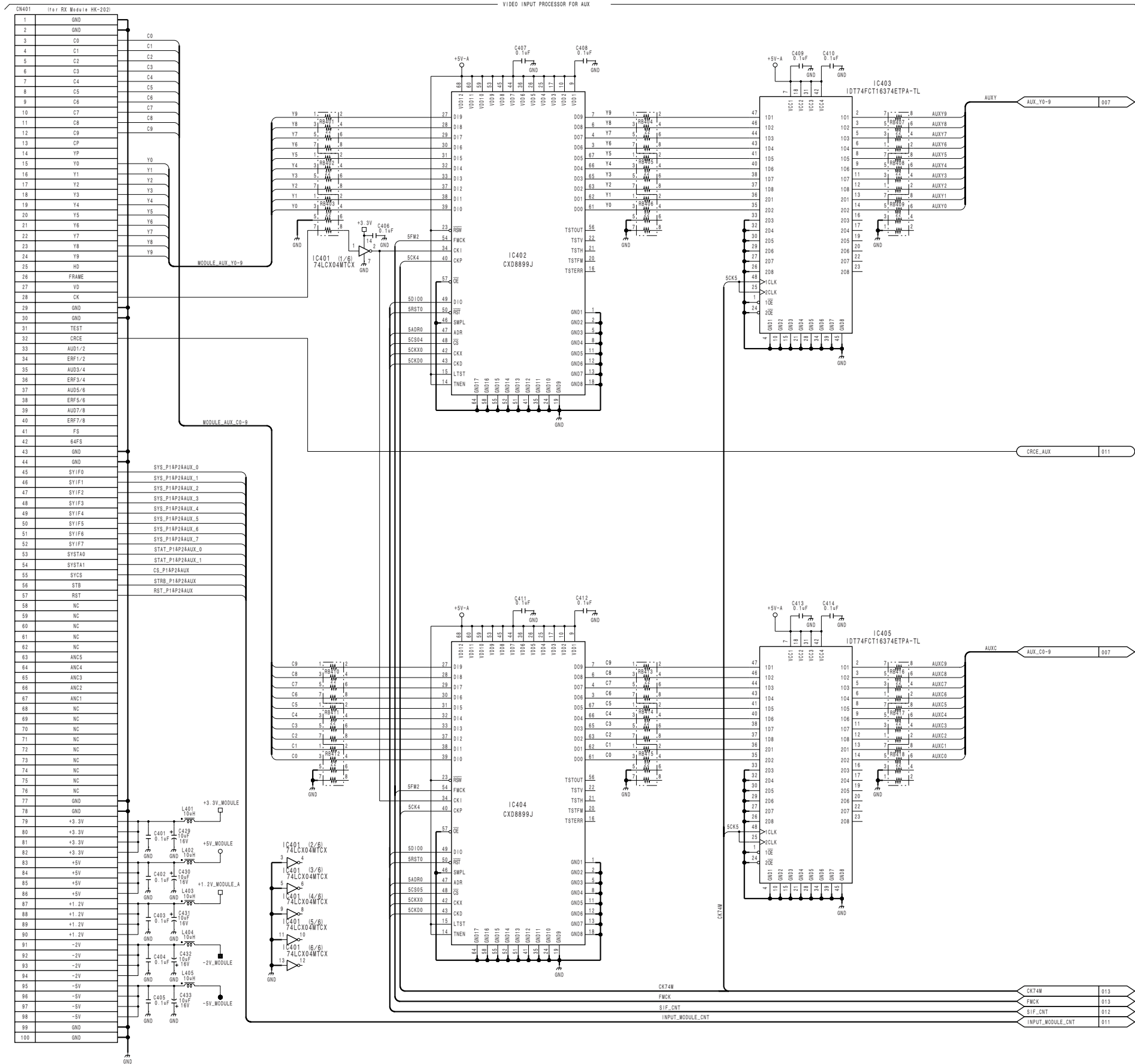


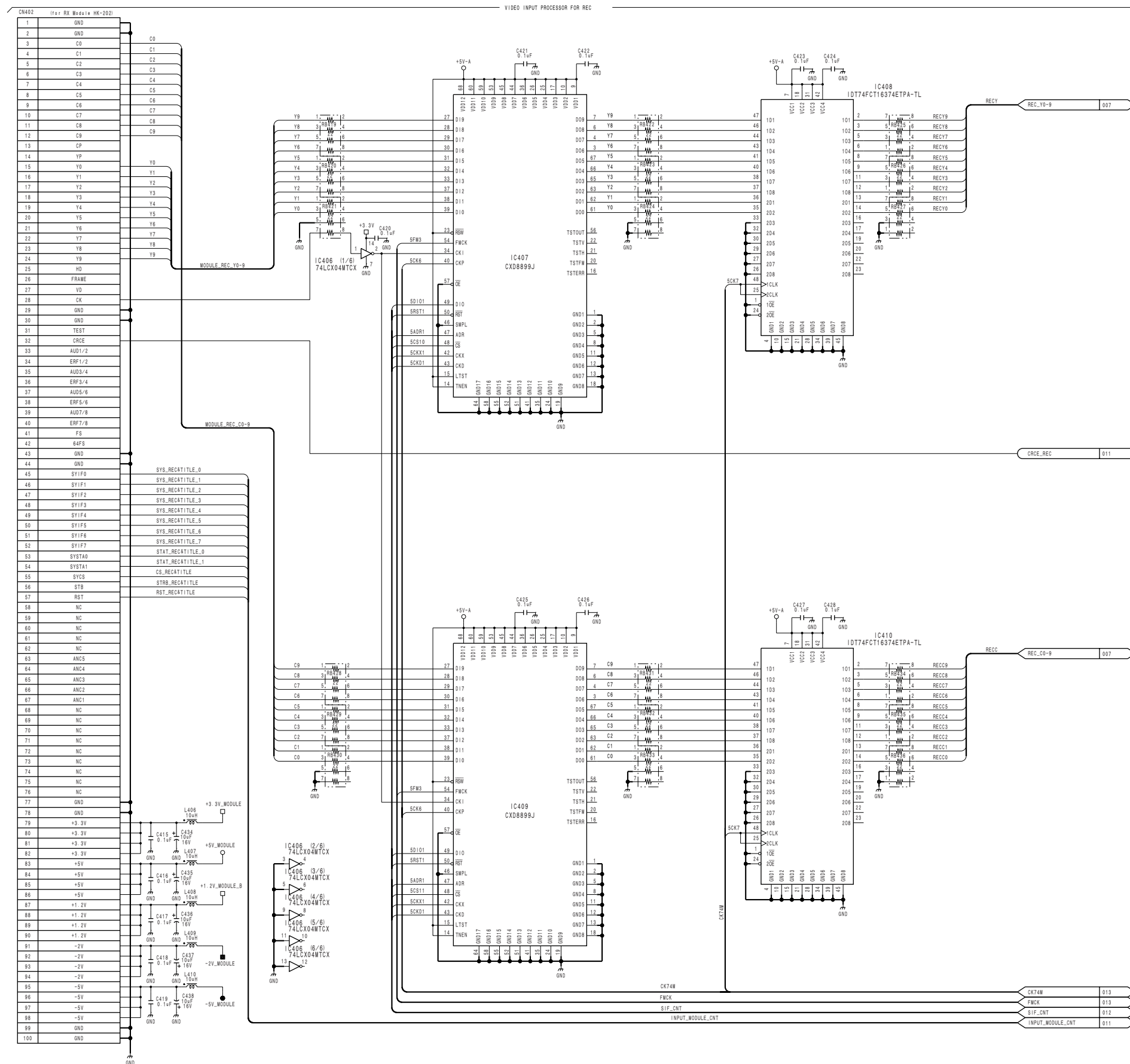


IO-193 (3/13)
 BOARD NO. 1-678-284-11
 LOT NO. 001-
 SJX-180_IO-193_011_3

BKE-701 (SY) : S/N 10001 and Higher

VIDEO INPUT PROCESSOR (AUX/REC)

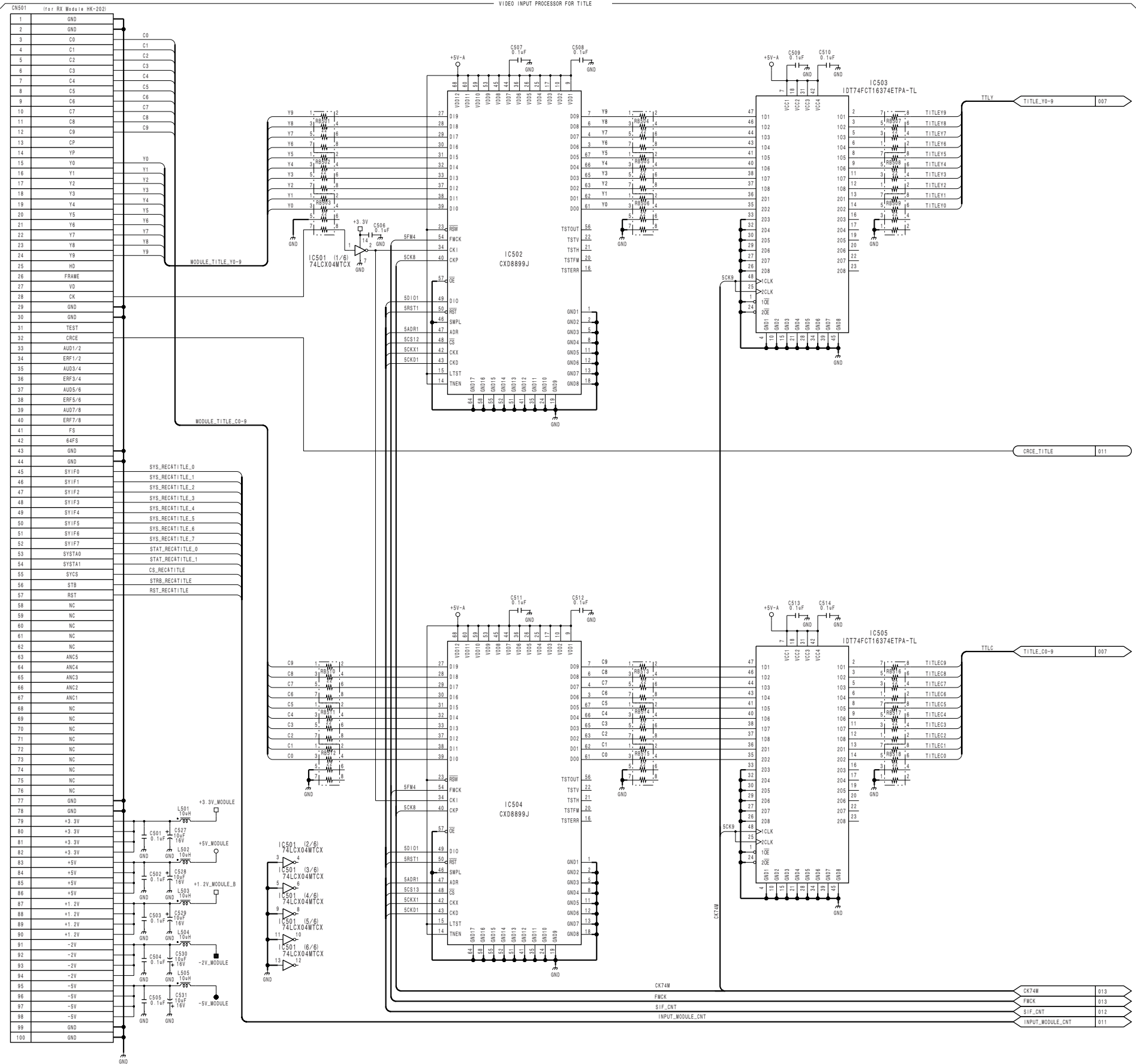




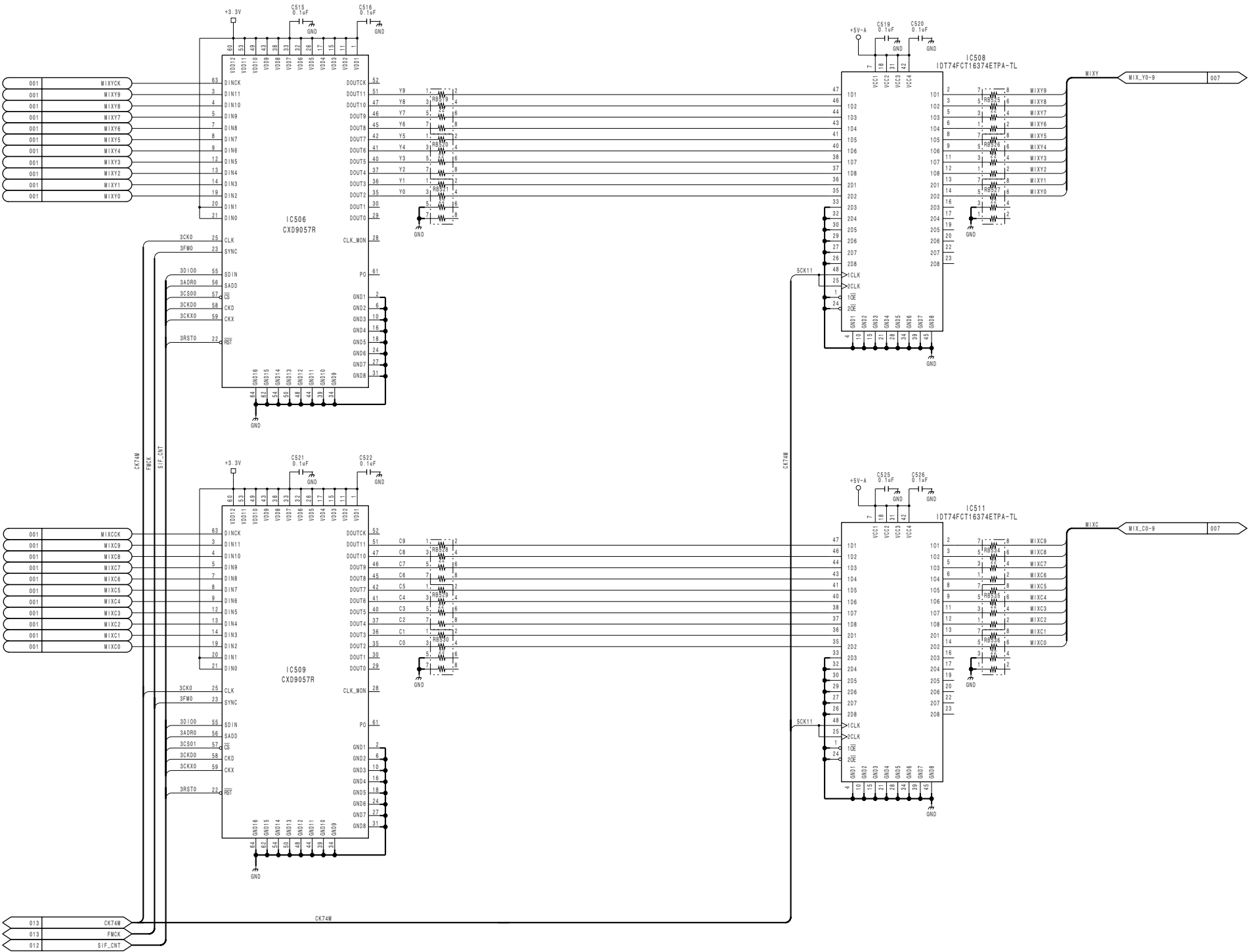
IO-193 (4/13)
 BOARD NO. 1-678-284-11
 LOT NO. 001-
 SJX-180_IO-193_011_4

BKE-701 (SY) : S/N 10001 and Higher

VIDEO INPUT PROCESSOR (TITLE/MIX)



VIDEO INPUT PROCESSOR FOR WIX

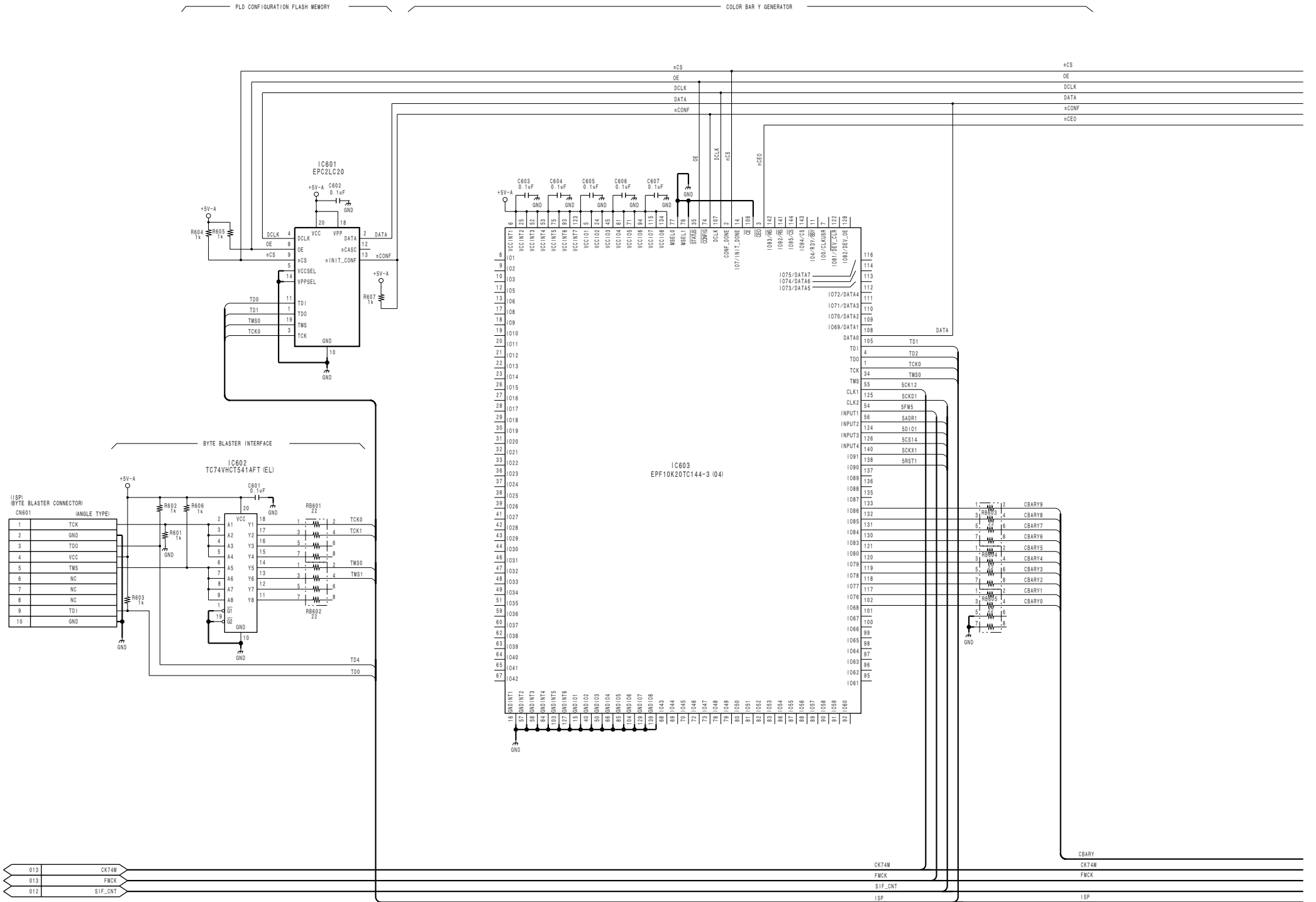


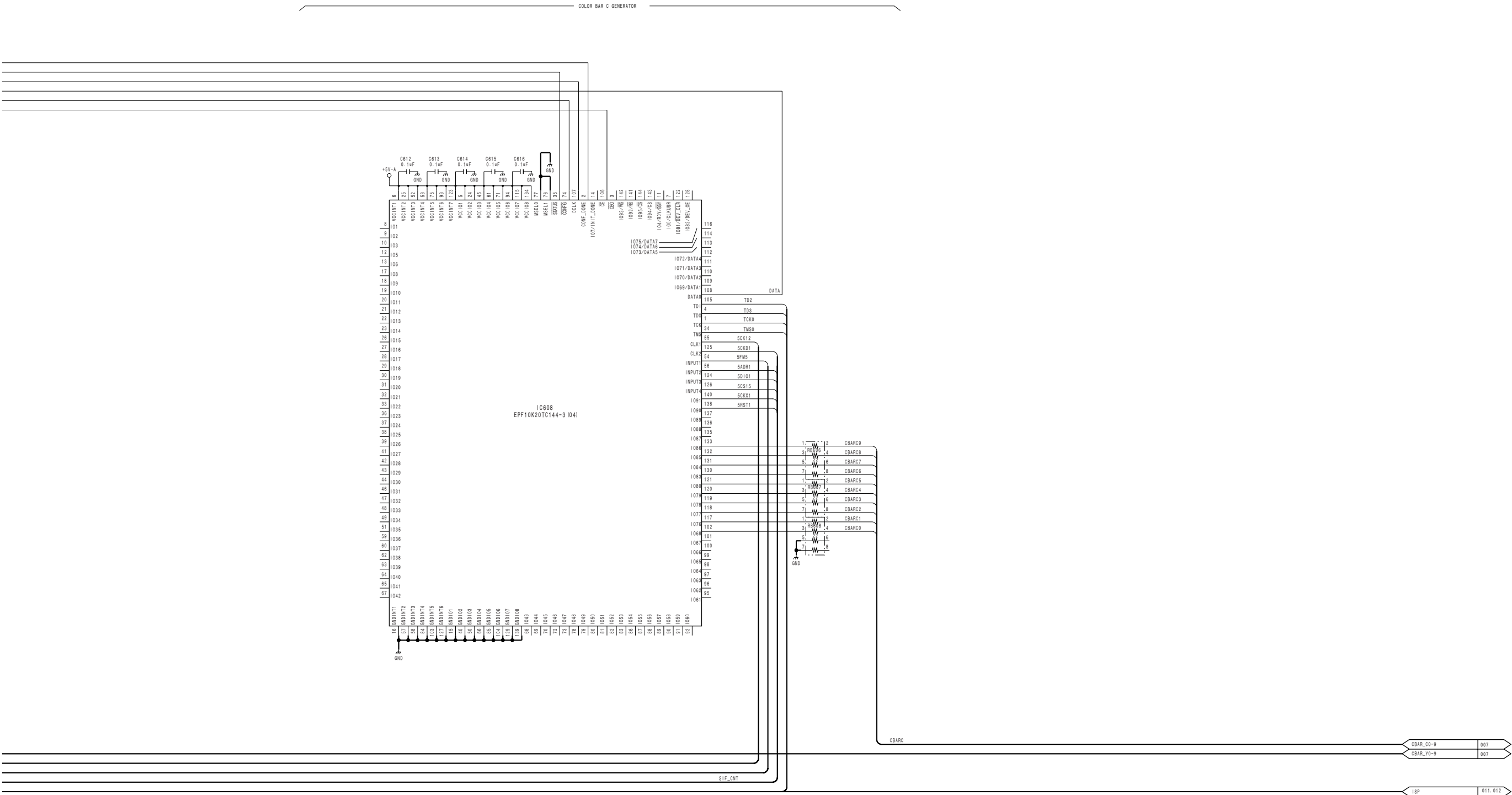
IO-193 (5/13)

BOARD NO. 1-678-284-11
LOT NO. 001-
SJX-180_IO-193_011_5

BKE-701 (SY) : S/N 10001 and Higher

COLOR BAR GENERATOR

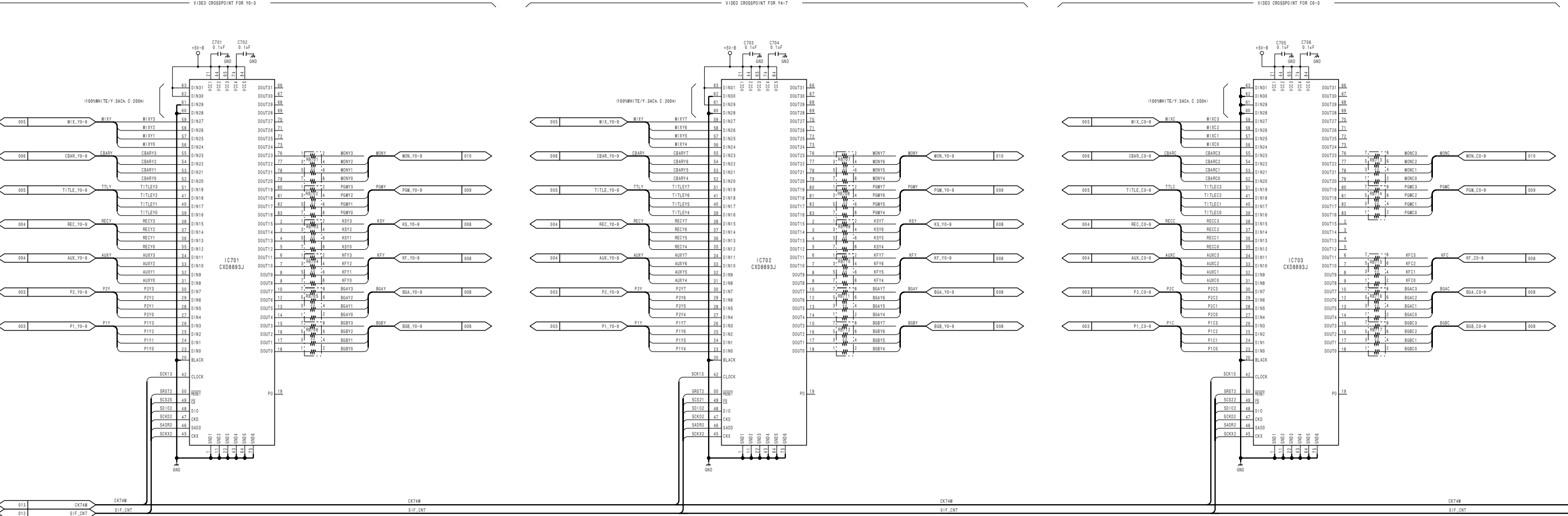


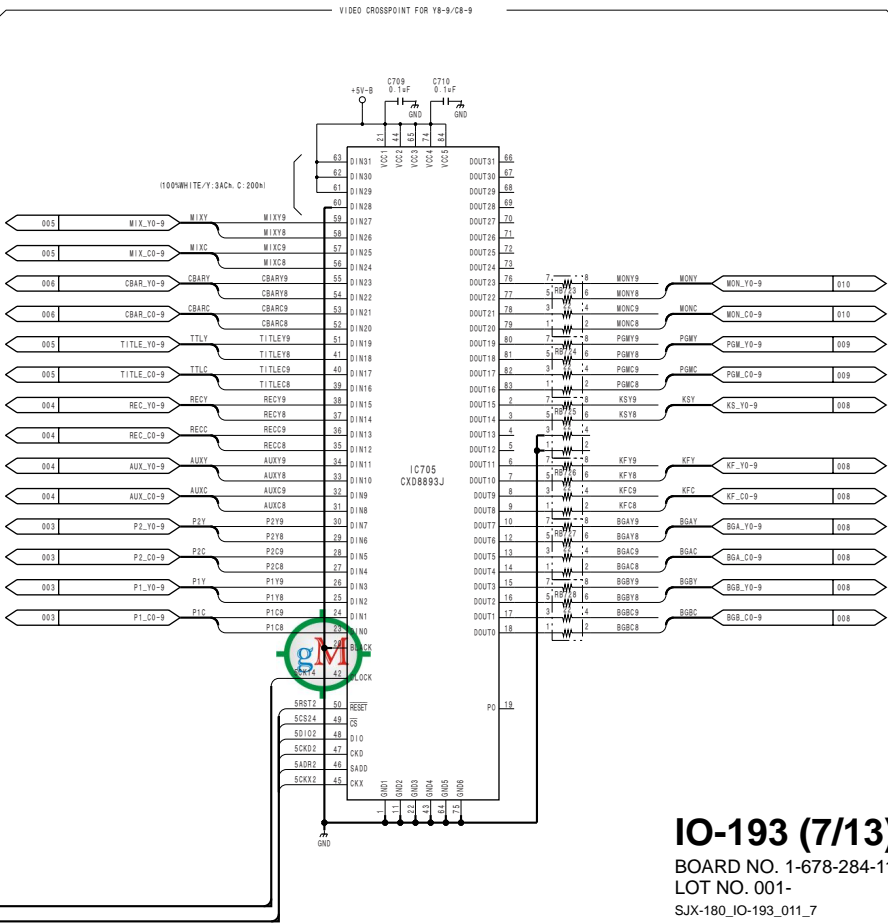
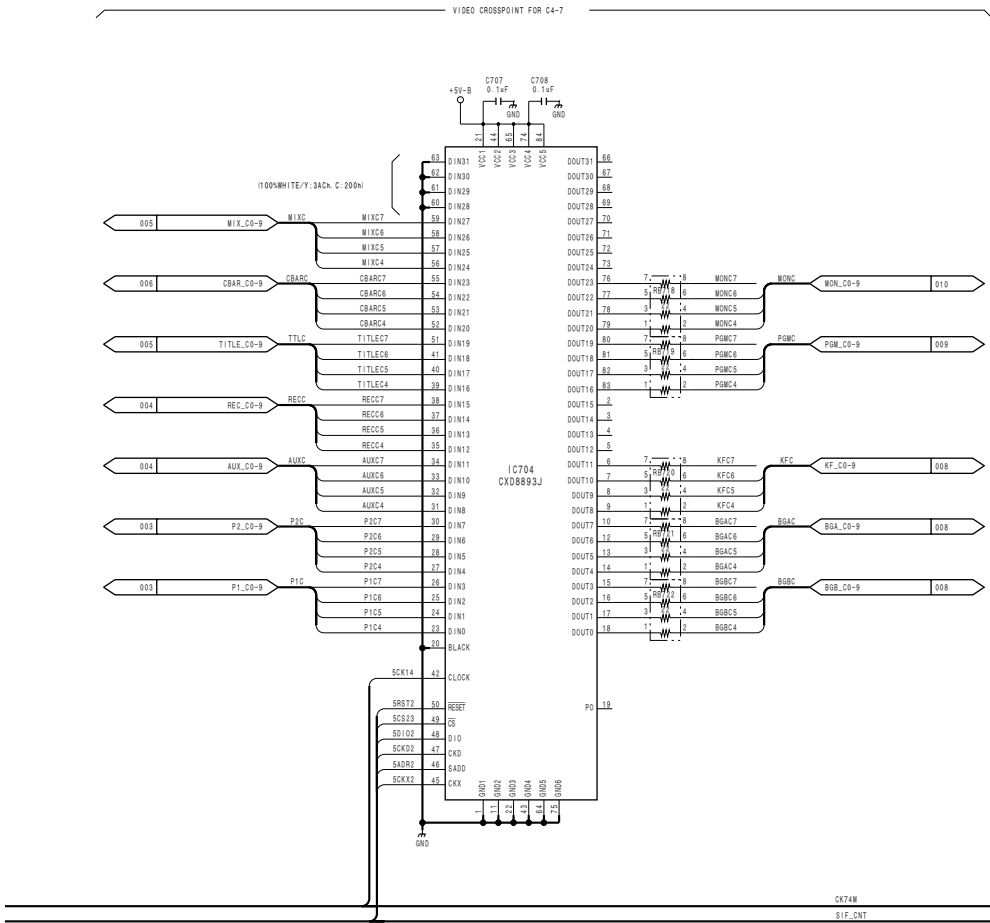


IO-193 (6/13)
BOARD NO. 1-678-284-11
LOT NO. 001-
SJX-180_IO-193_011_6

BKE-701 (SY) : S/N 10001 and Higher

VIDEO CROSSPOINT

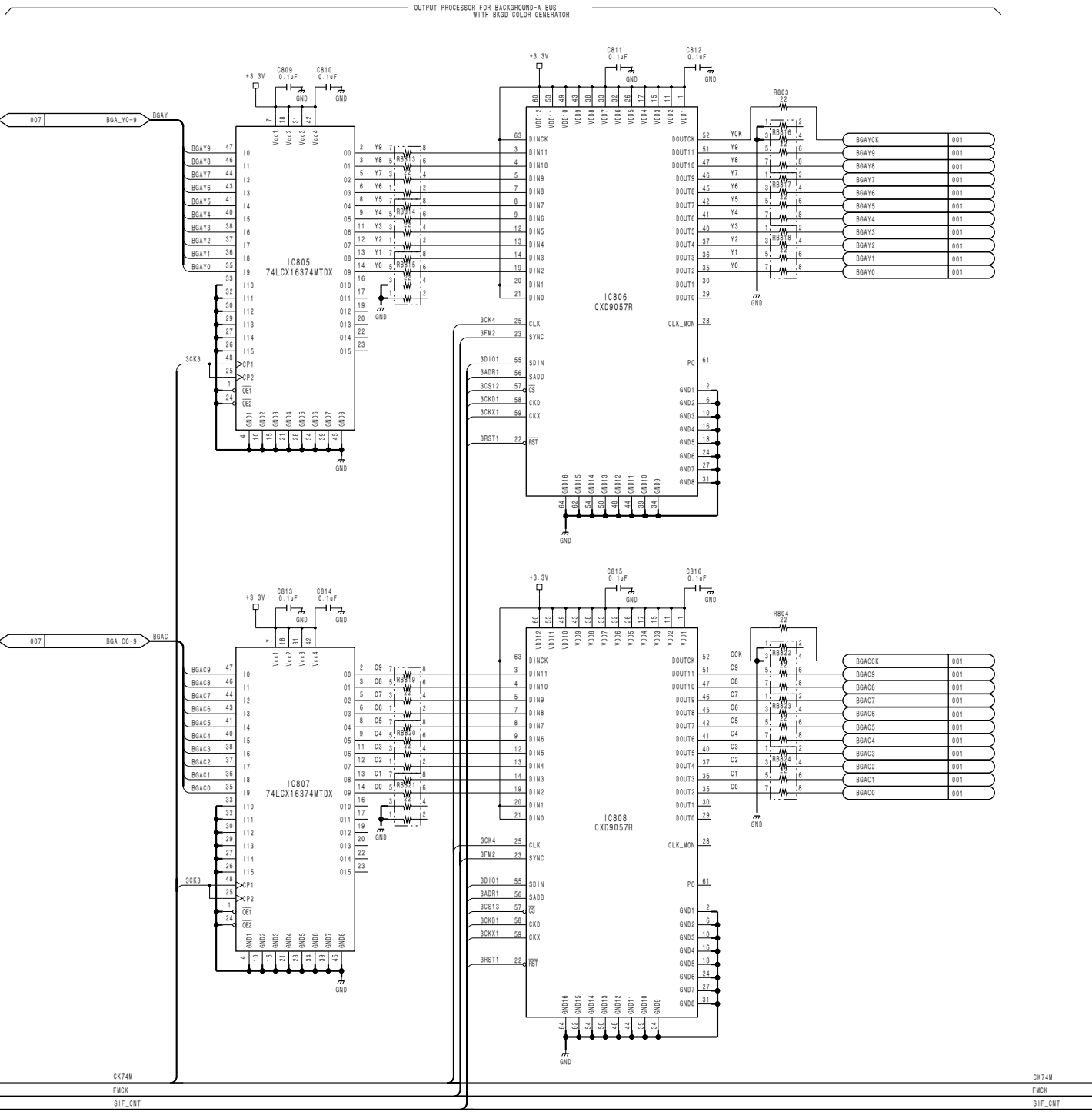
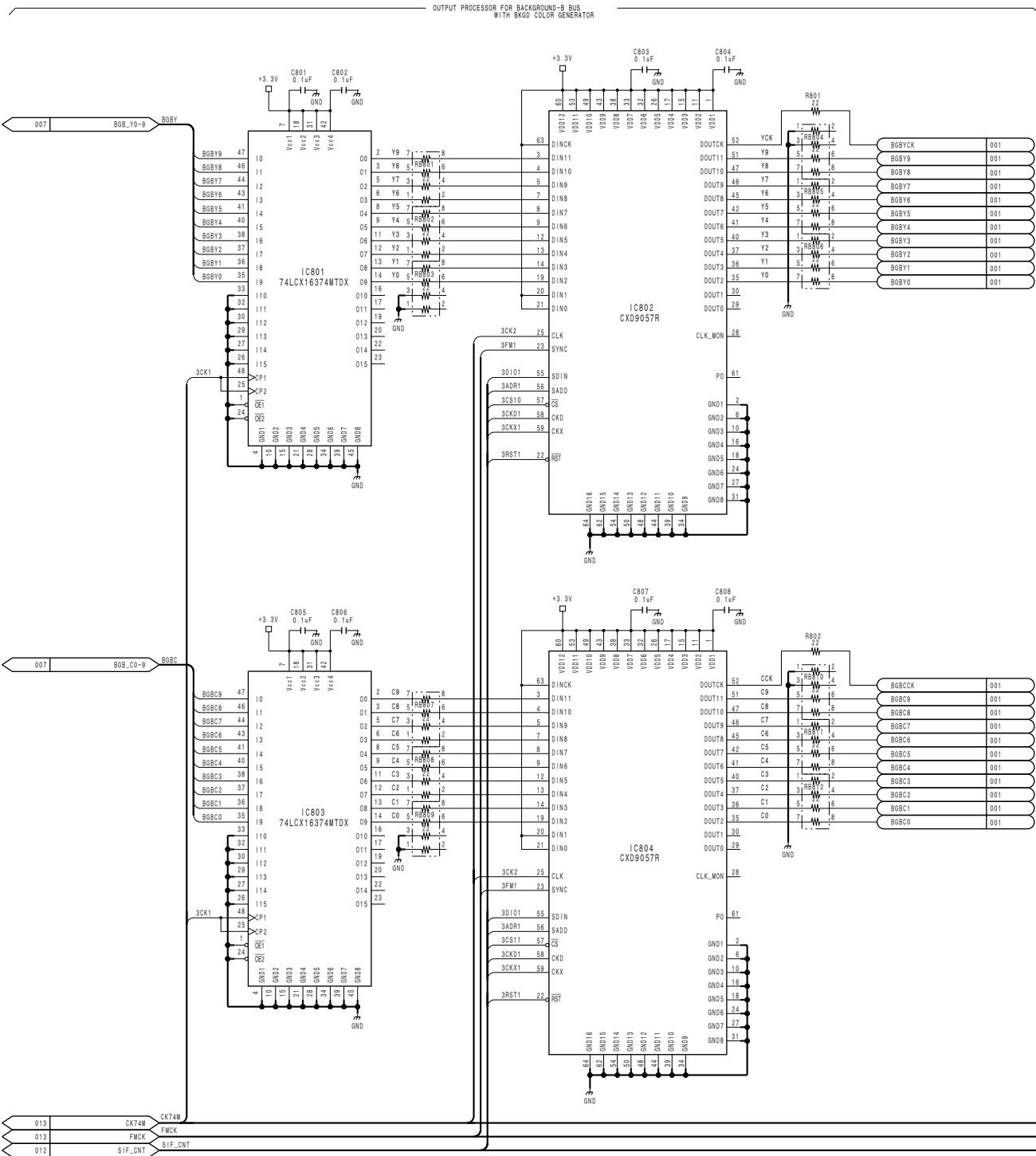


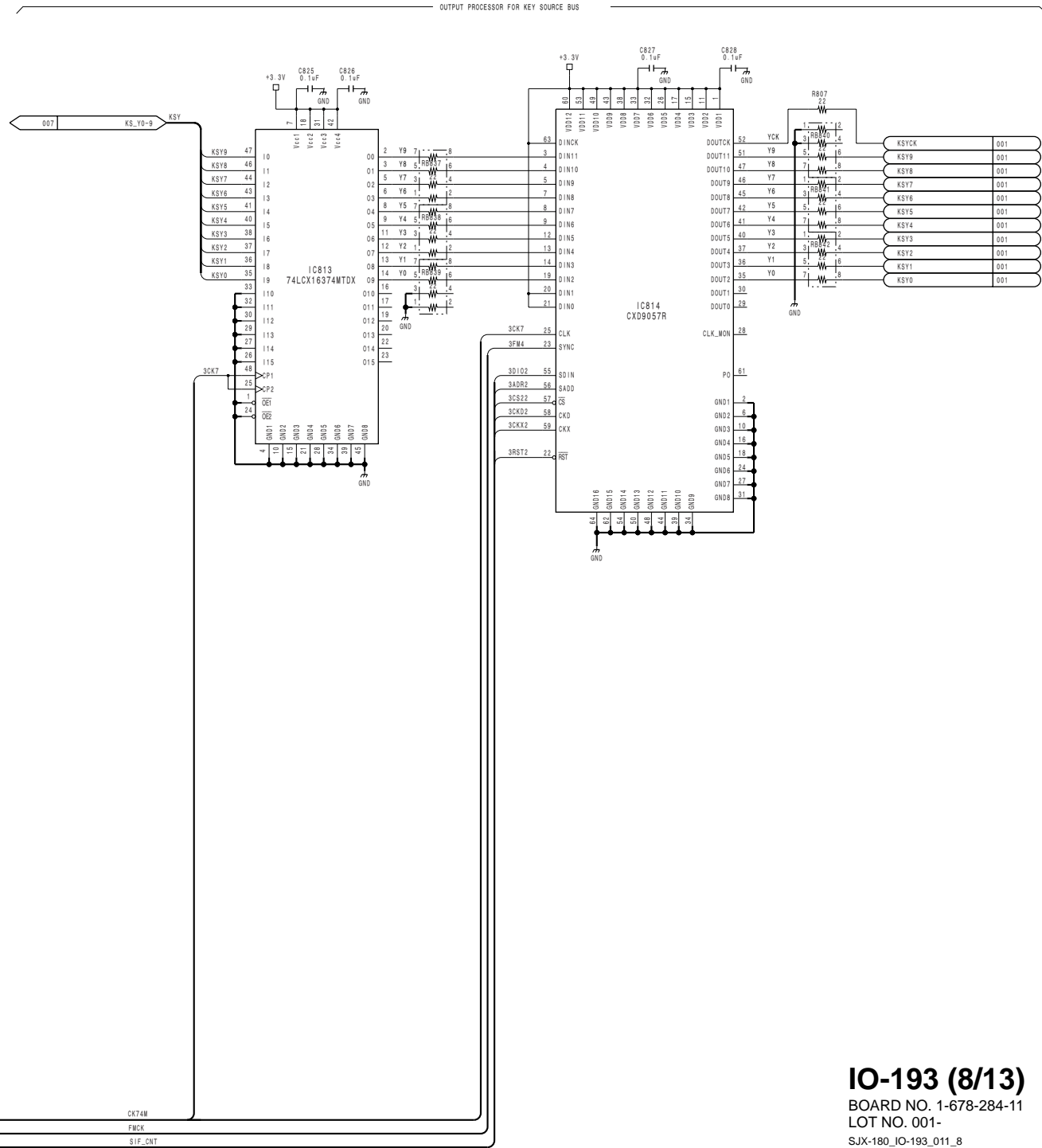
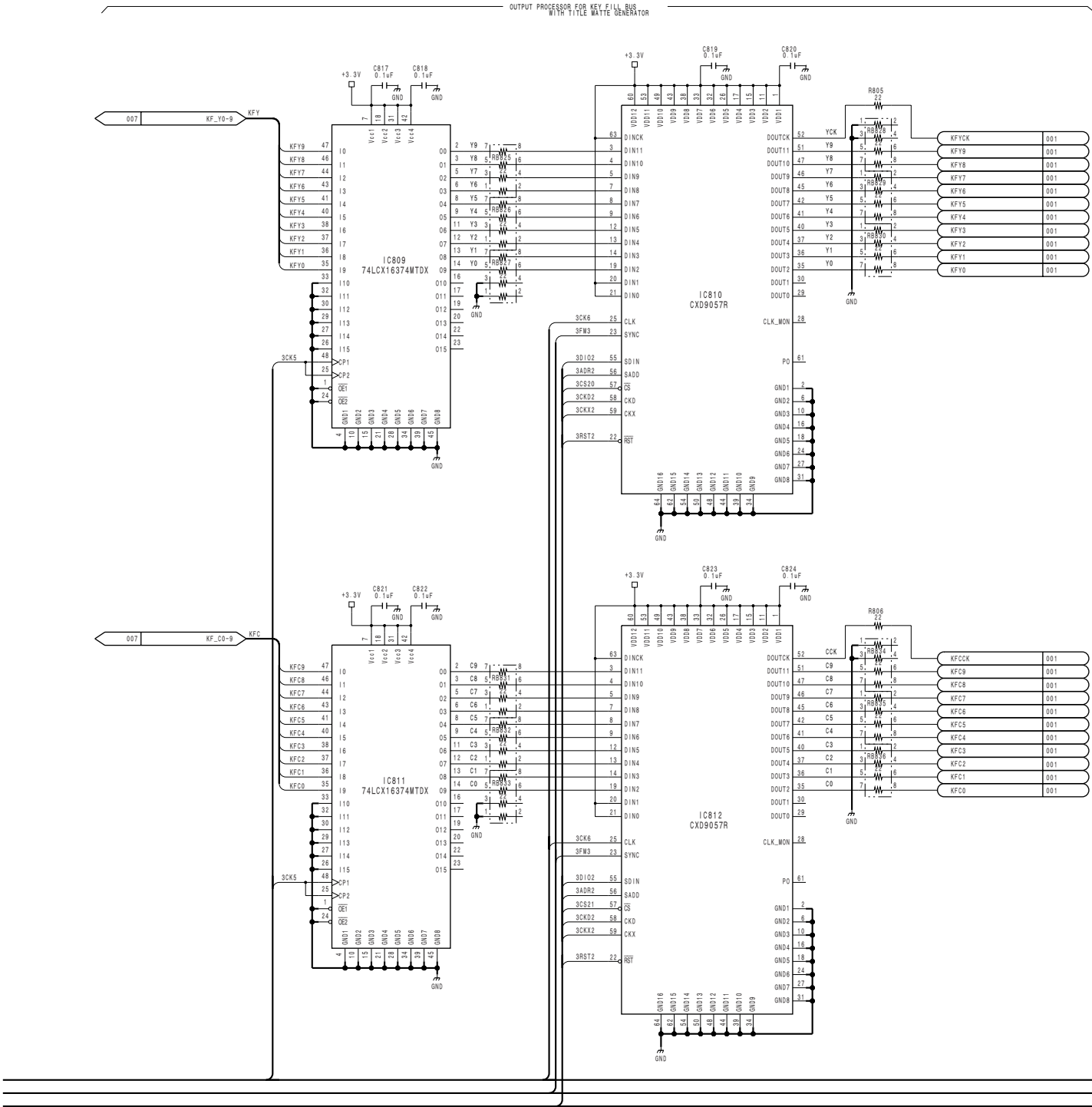


IO-193 (7/13)
BOARD NO. 1-678-284-11
LOT NO. 001-
SJX-180_IO-193_011_7

BKE-701 (SY) : S/N 10001 and Higher

VIDEO BUS OUTPUT PROCESSOR



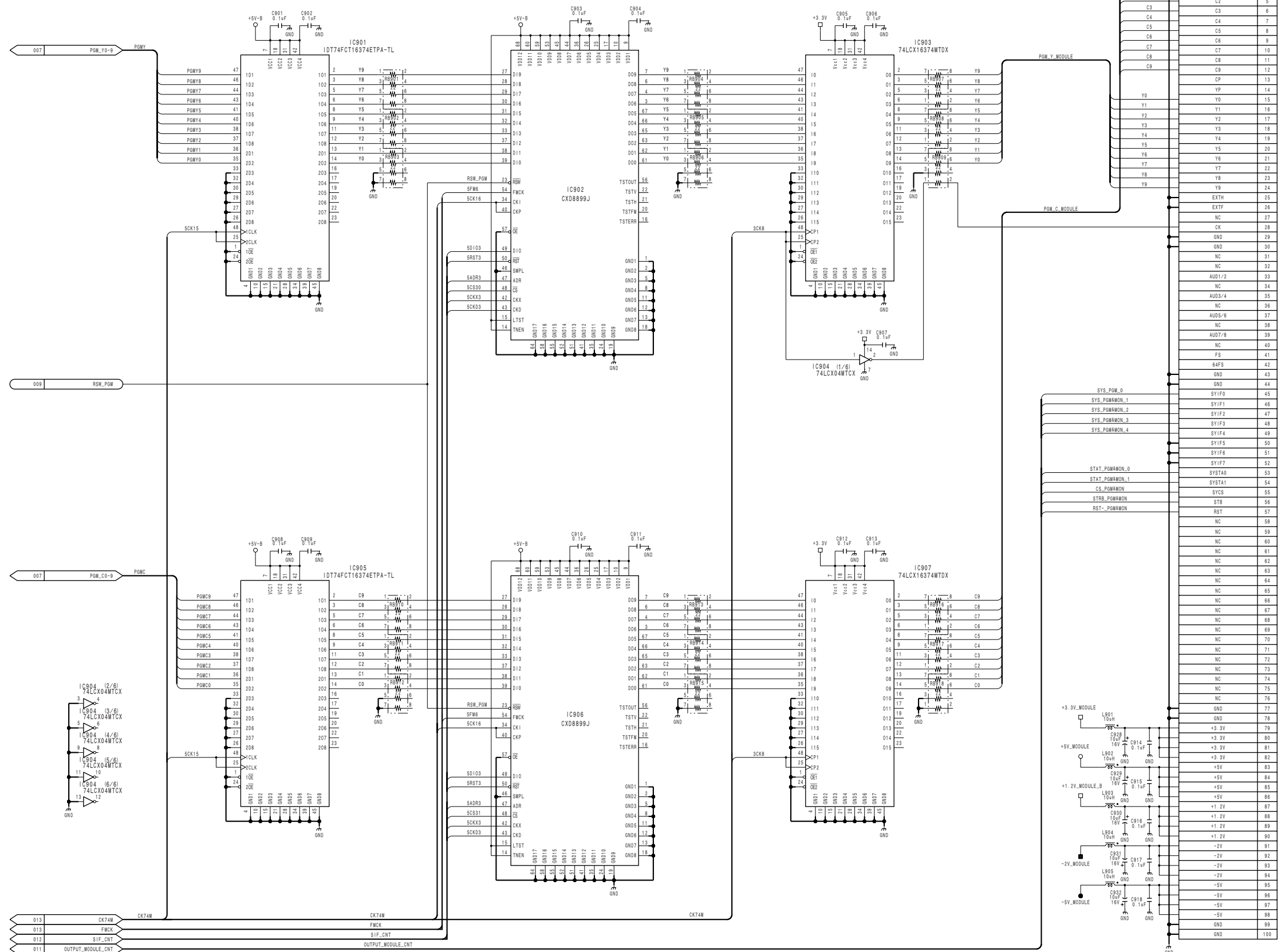


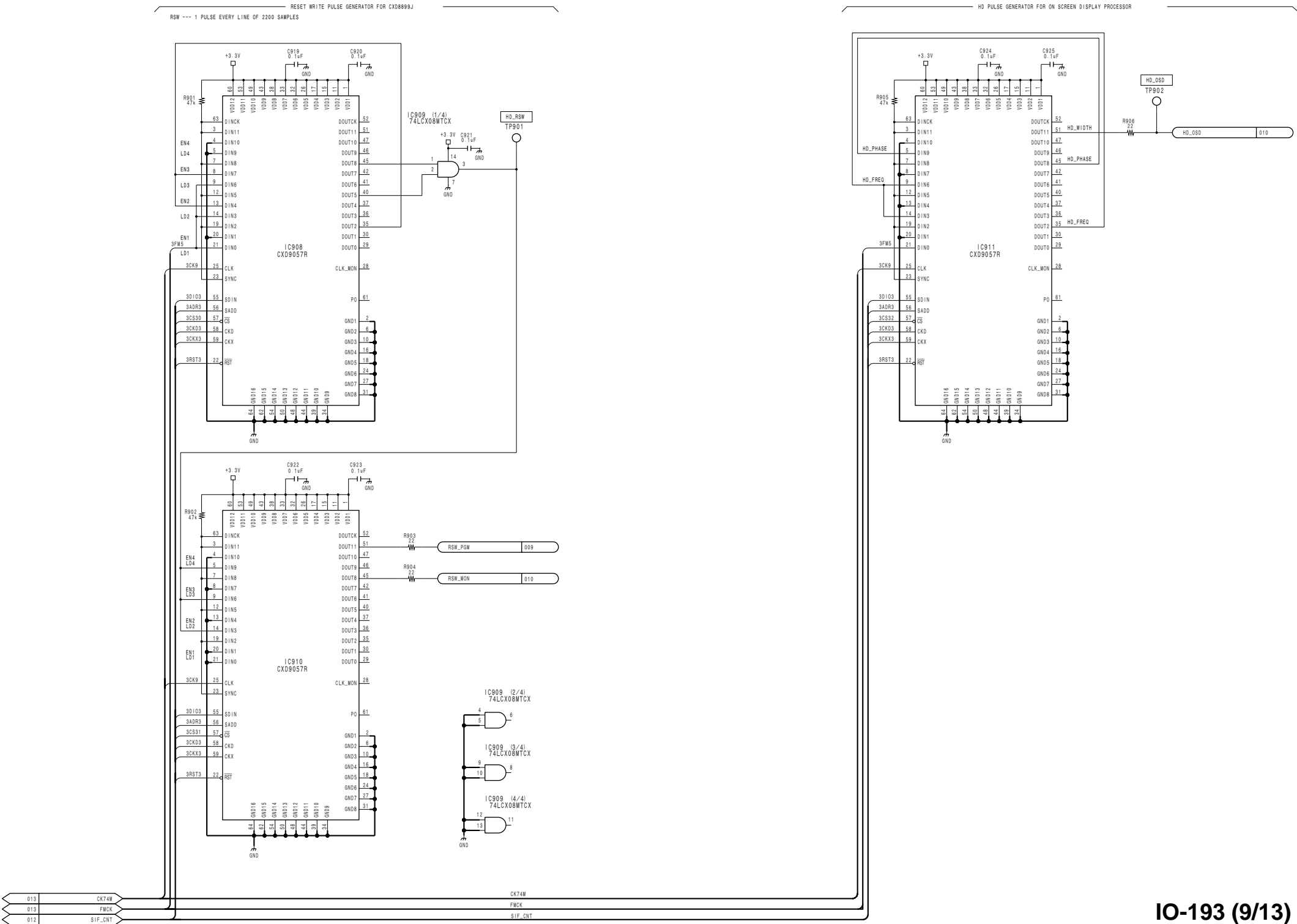
IO-193 (8/13)
BOARD NO. 1-678-284-11
LOT NO. 001-
SJX-180_IO-193_011_8

BKE-701 (SY) : S/N 10001 and Higher

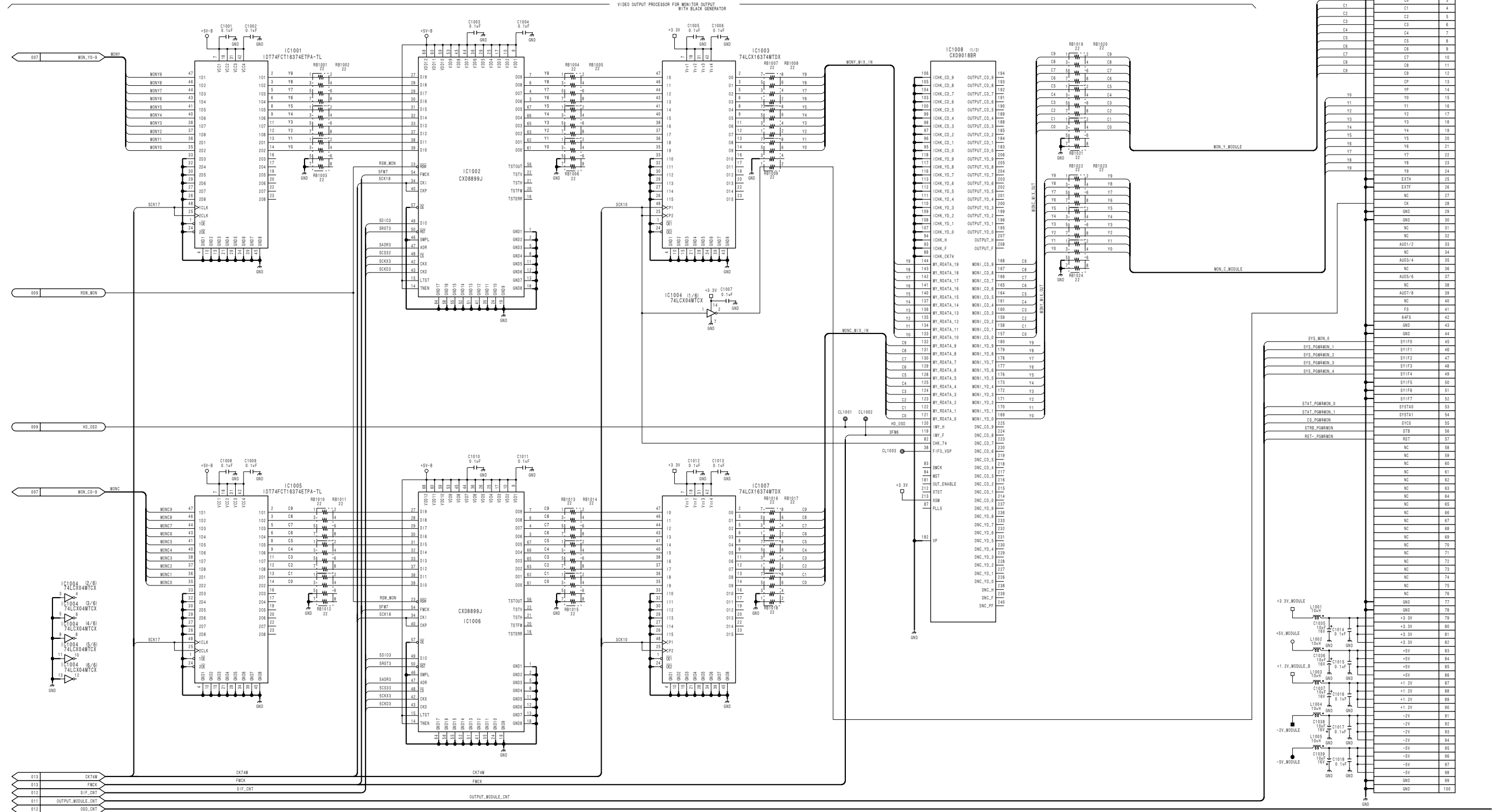
PROGRAM OUTPUT PROCESSOR

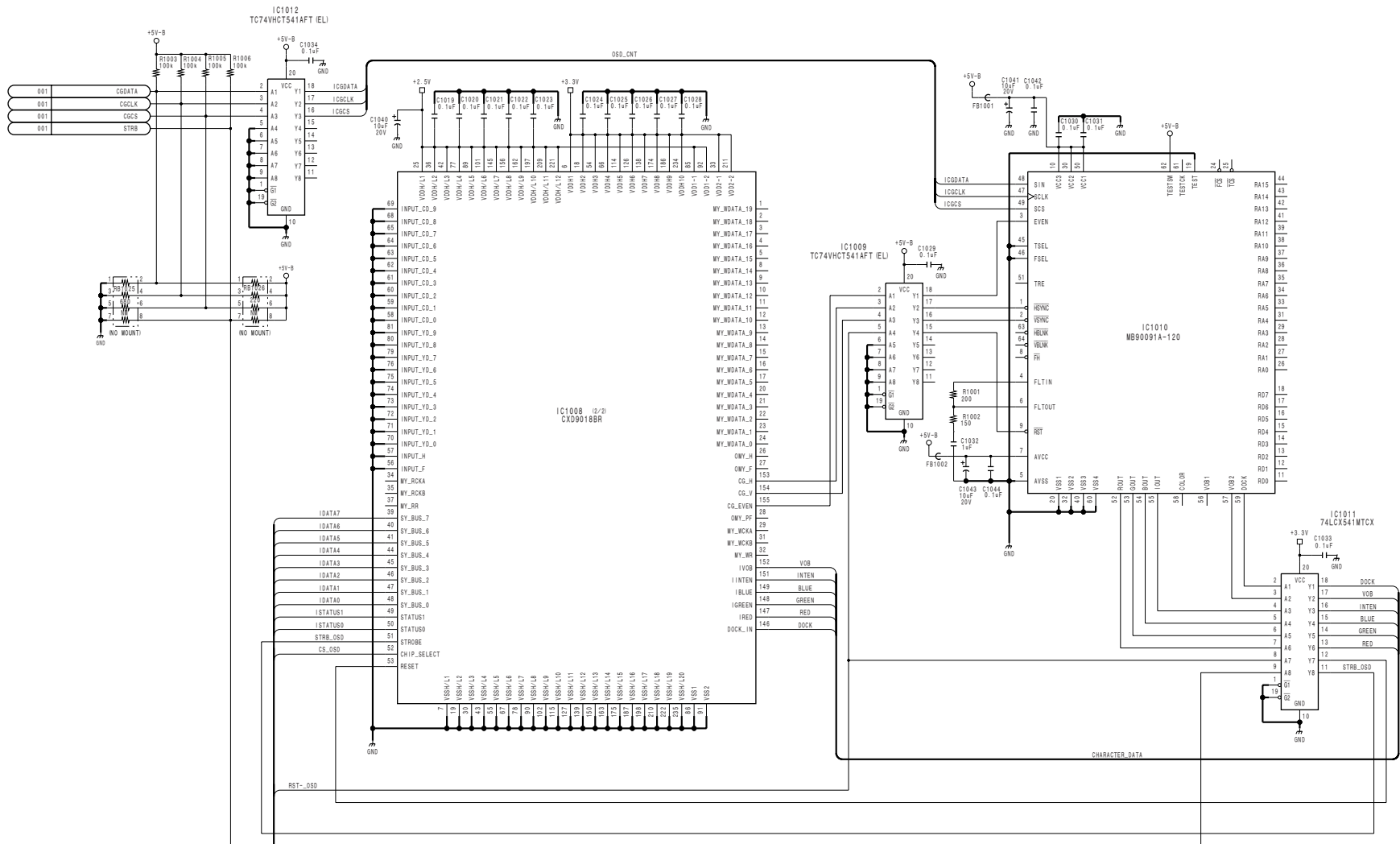
— VIDEO OUTPUT PROCESSOR FOR PROGRAM OUTPUT





MONITOR OUTPUT PROCESSOR

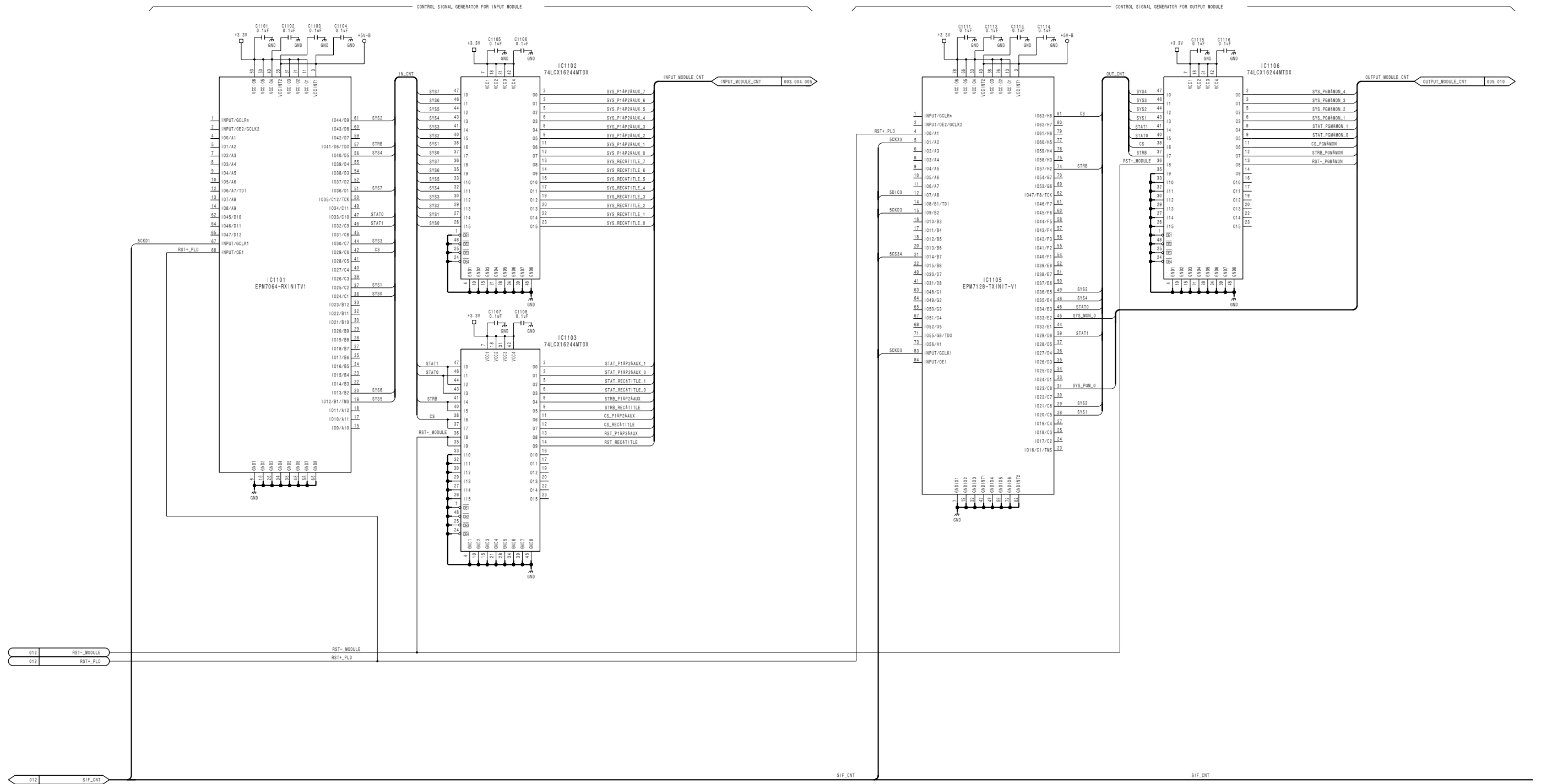


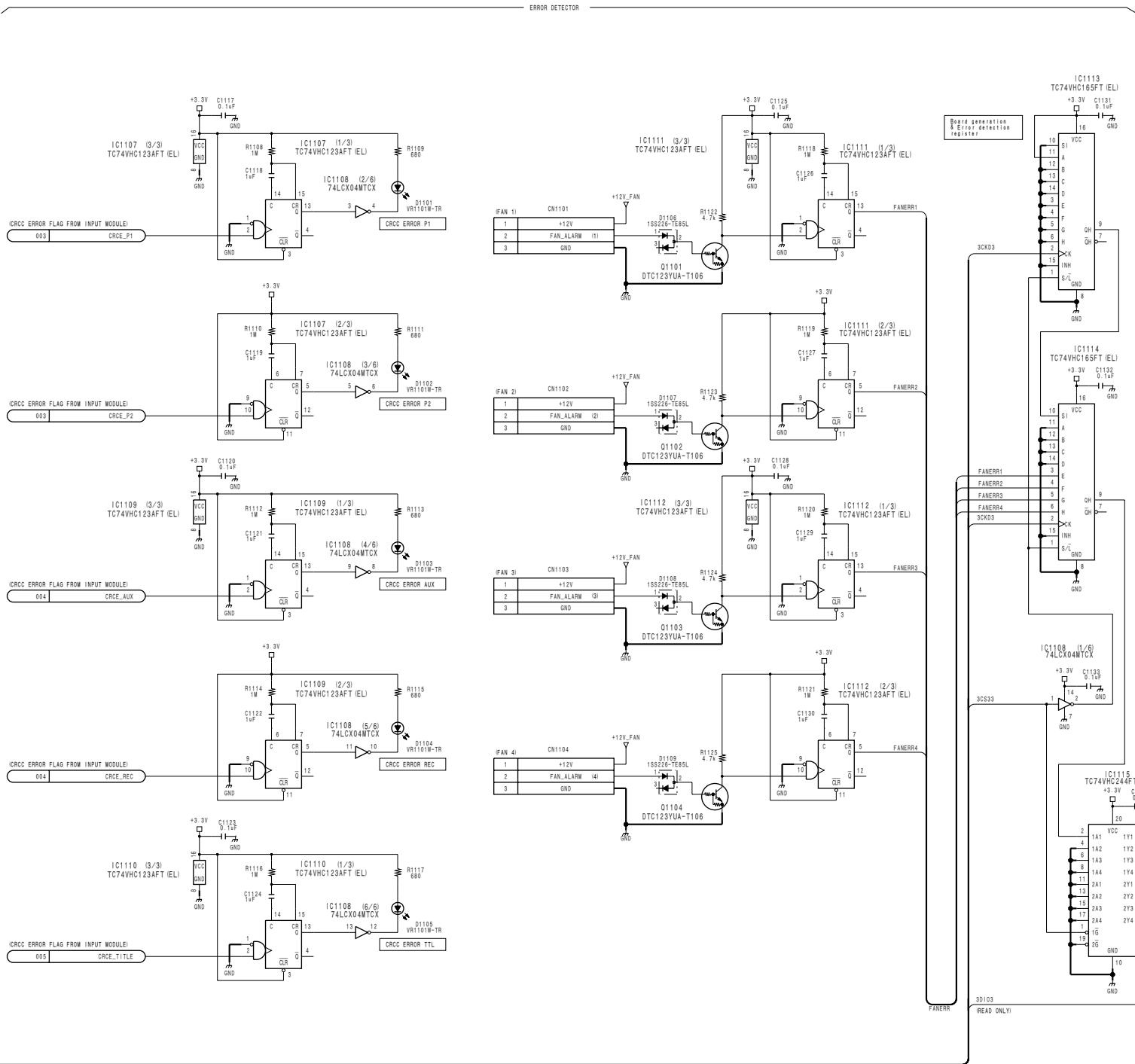


IO-193 (10/13)
BOARD NO. 1-678-284-11
LOT NO. 001-
SJX-180_IO-193_011_10

BKE-701 (SY) : S/N 10001 and Higher

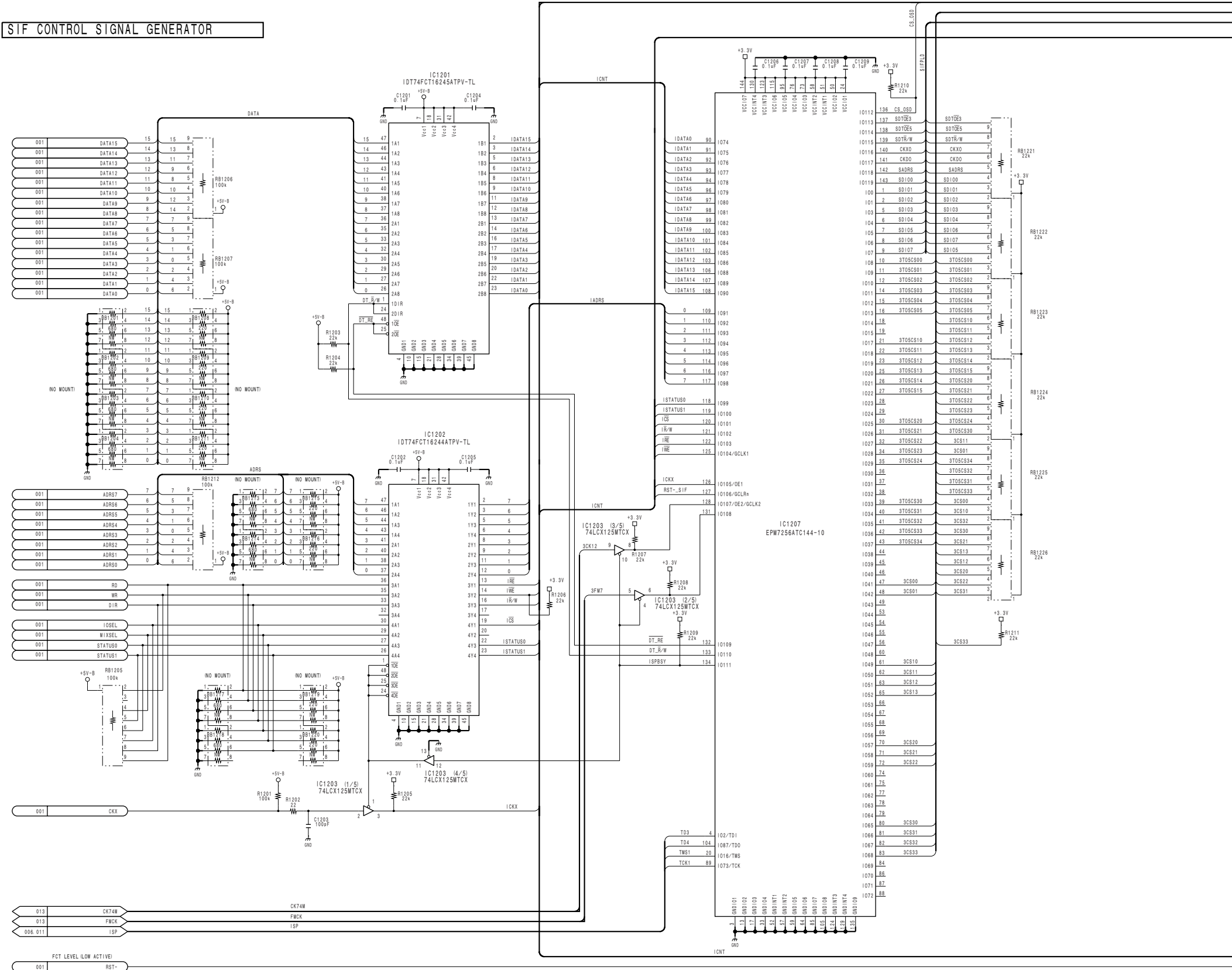
10 MODULE CONTROL SIGNAL GENERATOR & ERROR DETECTOR

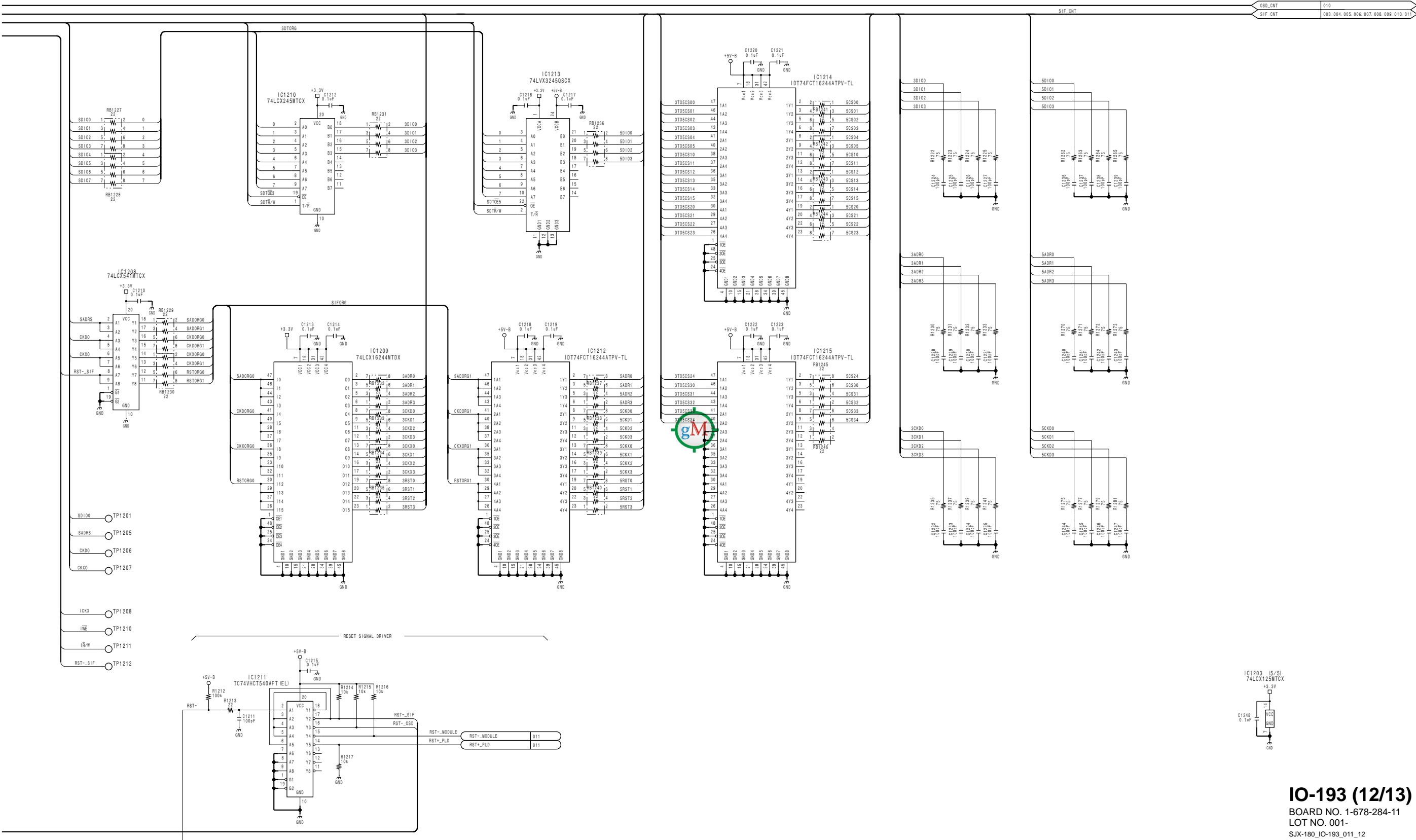




IO-193 (11/13)
BOARD NO. 1-678-284-11
LOT NO. 001-
SJX-180_IO-193_011_11

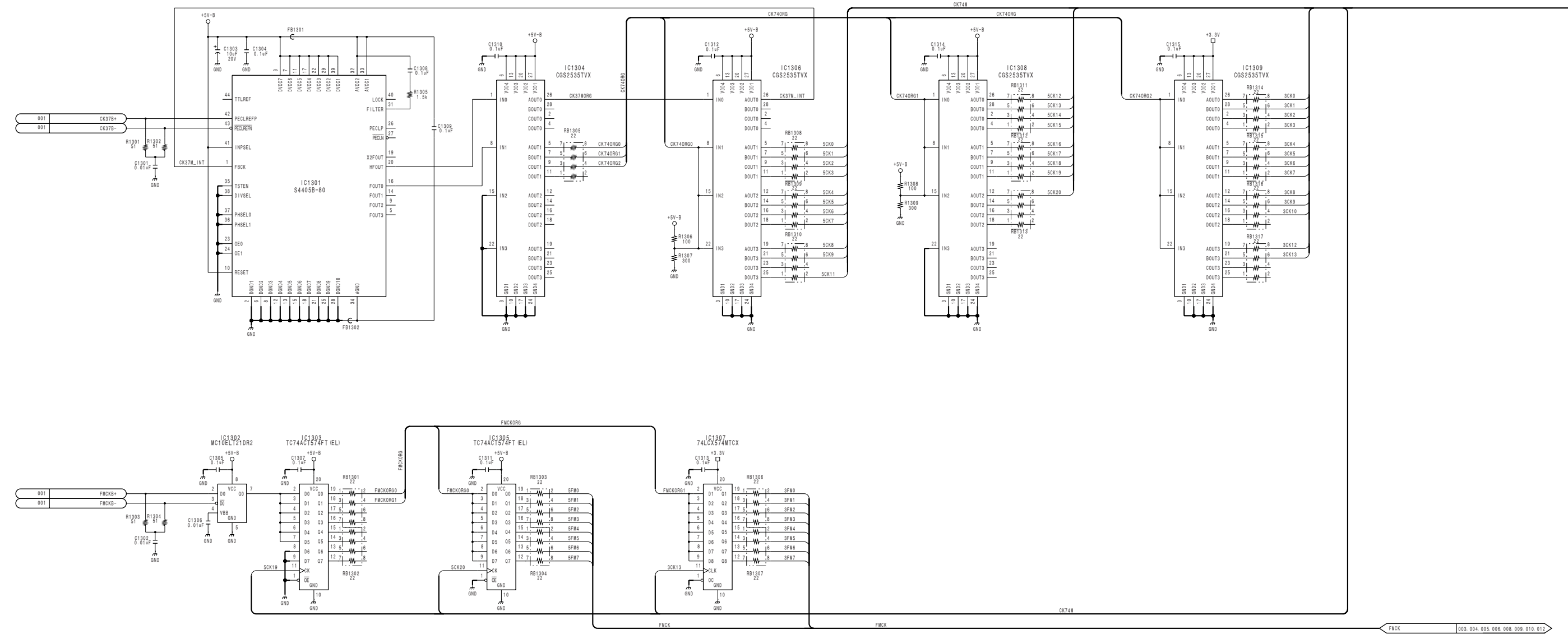
BKE-701 (SY) : S/N 10001 and Higher

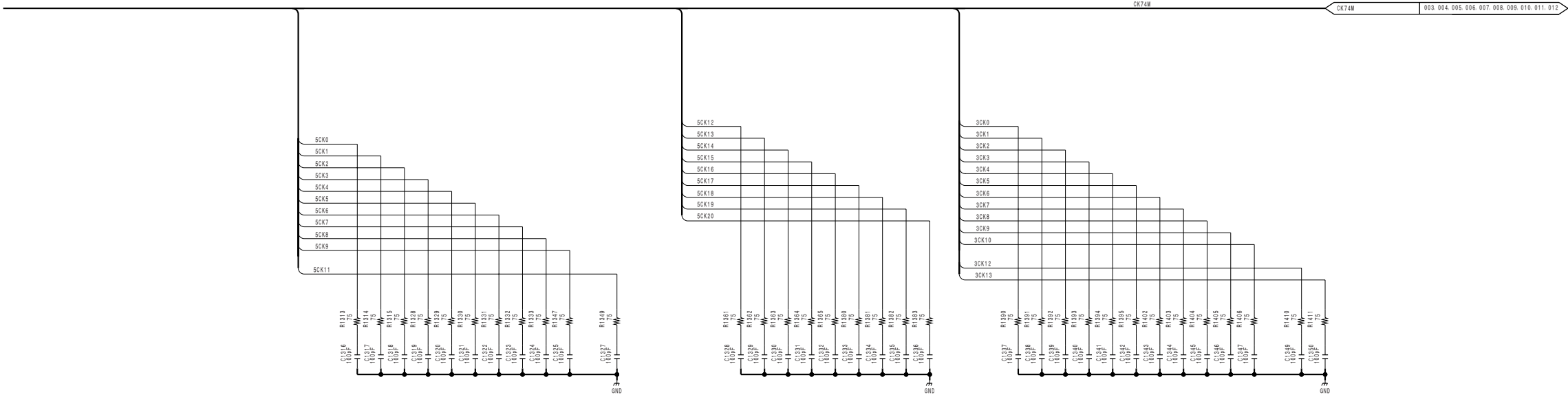




IO-193 (12/13)
BOARD NO. 1-678-284-11
LOT NO. 001-
SJX-180_IO-193_011_12

BKE-701 (SY) : S/N 10001 and Higher





IO-193 (13/13)
BOARD NO. 1-678-284-11
LOT NO. 001-
SJX-180_IO-193_011_13

BKE-701 (SY) : S/N 10001 and Higher

1

2

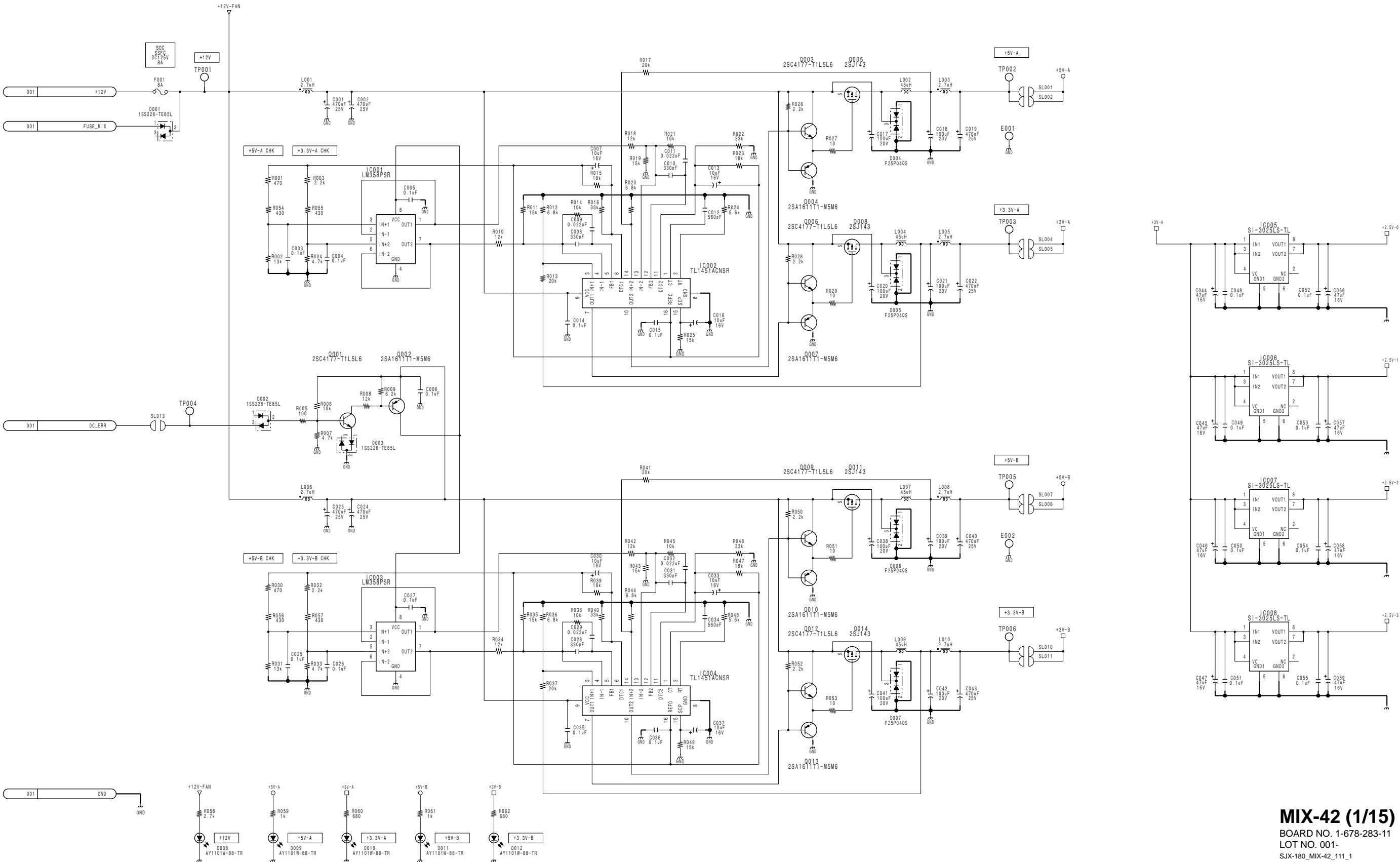
3

4

5

CN201						A211						CN204						A214								
						(TYPE A UNDER SHIELD)												(TYPE B UNDER SHIELD)								
	a	b	c	d	e	FG		F							a	b	c	d	e	FG		F				
1	+12V	+12V	+12V	+12V	+12V	GND	1		1	GND				1	GND	GND	GND	GND	GND	GND	1					
2	+12V	+12V	+12V	+12V	+12V		2	GND	2					2	GND	GND	GND	GND	GND		2	GND				
3	+12V	+12V	+12V	+12V	+12V	GND	3		3	MIXC0	MIXC1	GND	MIXC2	MIXC3	GND	MIXC4	MIXC5	GND	MIXC6	MIXC7	GND	3				
4	+12V	+12V	+12V	+12V	+12V		4	GND	4	GND				4	MIXC4	MIXC5	GND	MIXC6	MIXC7		4	GND				
5		DC_ERR				GND	5		5	MIXCCK		GND	GND	MIXC8	MIXC9					GND	5					
6	GND	GND	GND	GND	GND	GND	6	GND	6	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND		6	GND				
7	FUSE_MIX	GND	GND	GND	GND	GND	7		7	MIXY0	MIXY1	GND	MIXY2	MIXY3						GND	7					
8	CK37A+	CK37A-	GND				8	GND	8	MIXY4	MIXY5	GND	MIXY6	MIXY7							8	GND				
9	GND	GND	GND	GND	GND	GND	9		9	MIXYCK	GND	GND	MIXY8	MIXY9						GND	9					
10	FMCKA+	FMCKA-	GND	GND	GND		10	GND	10			GND	GND	GND							10	GND				
11	GND	GND	GND	GND	GND	GND	11		11			GND								GND	11					
12							12	GND	12			GND									12	GND				
13						GND	13		13			GND								GND	13					
14							14	GND	14			GND			GND				GND		14	GND				
15			GND			GND	15		15			GND								GND	15					
16	CKX		GND	GND			16	GND	16			GND									16	GND				
17	GND	GND	GND	GND	GND	GND	17		17			GND								GND	17					
18							18	GND	18			GND			GND				GND		18	GND				
19						GND	19		19			GND								GND	19					
20							20	GND	20			GND									20	GND				
21	GND	GND	GND	GND	GND	GND	21		21			GND								GND	21					
22	KSY0	KSY1	GND	KSY2	KSY3		22	GND	22			GND			GND				GND		22	GND				
23	KSY4	KSY5	GND	KSY6	KSY7	GND	23		23			GND								GND	23					
24	KSYCK	GND	GND	KSY8	KSY9		24	GND	24			GND									24	GND				
25	GND	GND	GND	GND	GND	GND	25		25			GND								GND	25					

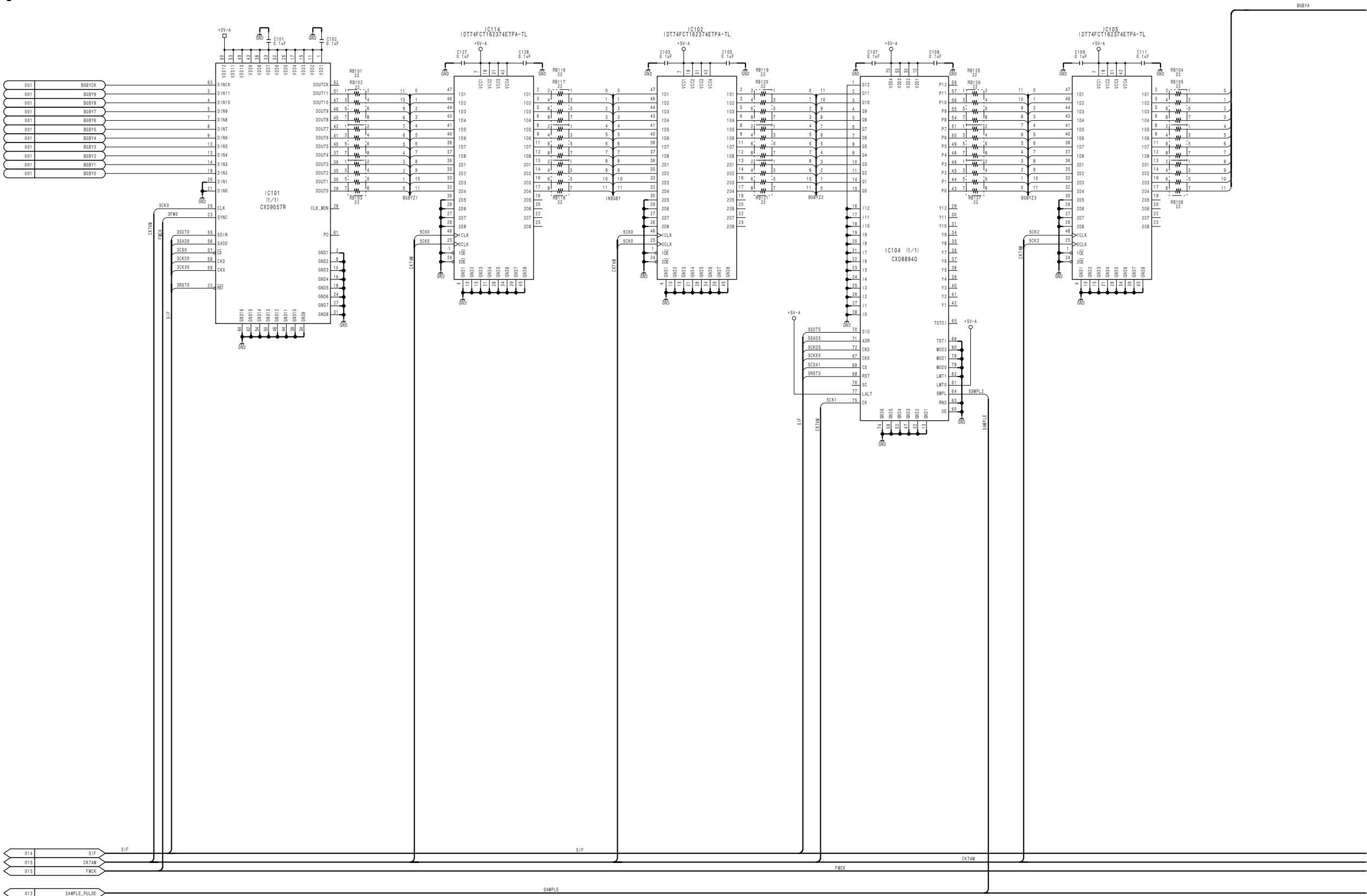
CN202						A212						CN205						A215								
						(TYPE B UNDER SHIELD)												(TYPE A UNDER SHIELD)								
	a	b	c	d	e	FG		F							a	b	c	d	e	FG		F				
1	KFC0	KFC1	GND	KFC2	KFC3	GND	1		1					1	GND	GND	GND	GND	GND	GND	1					
2	KFC4	KFC5	GND	KFC6	KFC7		2	GND	2					2							2	GND				
3	KFCCK	GND	GND	KFC8	KFC9	GND	3		3					3						GND	3					
4	GND	GND	GND	GND	GND		4	GND	4	GND				4							4	GND				
5	KFY0	KFY1	GND	KFY2	KFY3	GND	5		5					5			GND	GND	GND	GND	5					
6	KFY4	KFY5	GND	KFY6	KFY7		6	GND	6	GND				6	GND	GND	GND	GND	GND		6	GND				
7	KFYCK	GND	GND	KFY8	KFY9	GND	7		7					7			GND			GND	7					
8	GND	GND	GND	GND	GND		8	GND	8					8			GND				8	GND				
9	BGAC0	BGAC1	GND	BGAC2	BGAC3	GND	9		9					9			GND			GND	9					
10	BGAC4	BGAC5	GND	BGAC6	BGAC7		10	GND	10	GND				10			GND				10	GND				
11	BGACCK	GND	GND	BGAC8	BGAC9	GND	11		11					11			GND			GND	11					
12	GND	GND	GND	GND	GND		12	GND	12					12						GND	12	GND				
13	BGAY0	BGAY1	GND	BGAY2	BGAY3	GND	13		13					13						GND	13					
14	BGAY4	BGAY5	GND	BGAY6	BGAY7		14	GND	14	GND				14						GND	14	GND				
15	BGAYCK	GND	GND	BGAY8	BGAY9	GND	15		15					15			GND	GND	GND	GND	15					
16	GND	GND	GND	GND	GND		16	GND	16	GND				16			GND				16	GND				
17	BGBC0	BGBC1	GND	BGBC2	BGBC3	GND	17		17	IOSEL	MIXSEL	GND	STATUS0	STATUS1						GND	17					
18	BGBC4	BGBC5	GND	BGBC6	BGBC7		18	GND	18			GND	ADRS0	ADRS1	GND	ADRS2	ADRS3				18	GND				
19	BGBCCK	GND	GND	BGBC8	BGBC9	GND	19		19			GND	ADRS4	ADRS5	GND	ADRS6	ADRS7			GND	19					
20	GND	GND	GND	GND	GND		20	GND	20	GND			GND	GND	GND	GND	GND				20	GND				
21	BGBY0	BGBY1	GND	BGBY2	BGBY3	GND	21		21	DATA0	DATA1	GND	DATA2	DATA3						GND	21					
22	BGBY4	BGBY5	GND	BGBY6	BGBY7		22	GND	22	DATA4	DATA5	GND	DATA6	DATA7							22	GND				
23	BGBYCK	GND	GND	BGBY8	BGBY9	GND	23		23	DATA8	DATA9	GND	DATA10	DATA11						GND	23					
24	GND	GND	GND	GND	GND		24	GND	24	DATA12	DATA13	GND	DATA14	DATA15							24	GND				
25	GND	GND	GND	GND	GND	GND	25		25	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	GND	25					

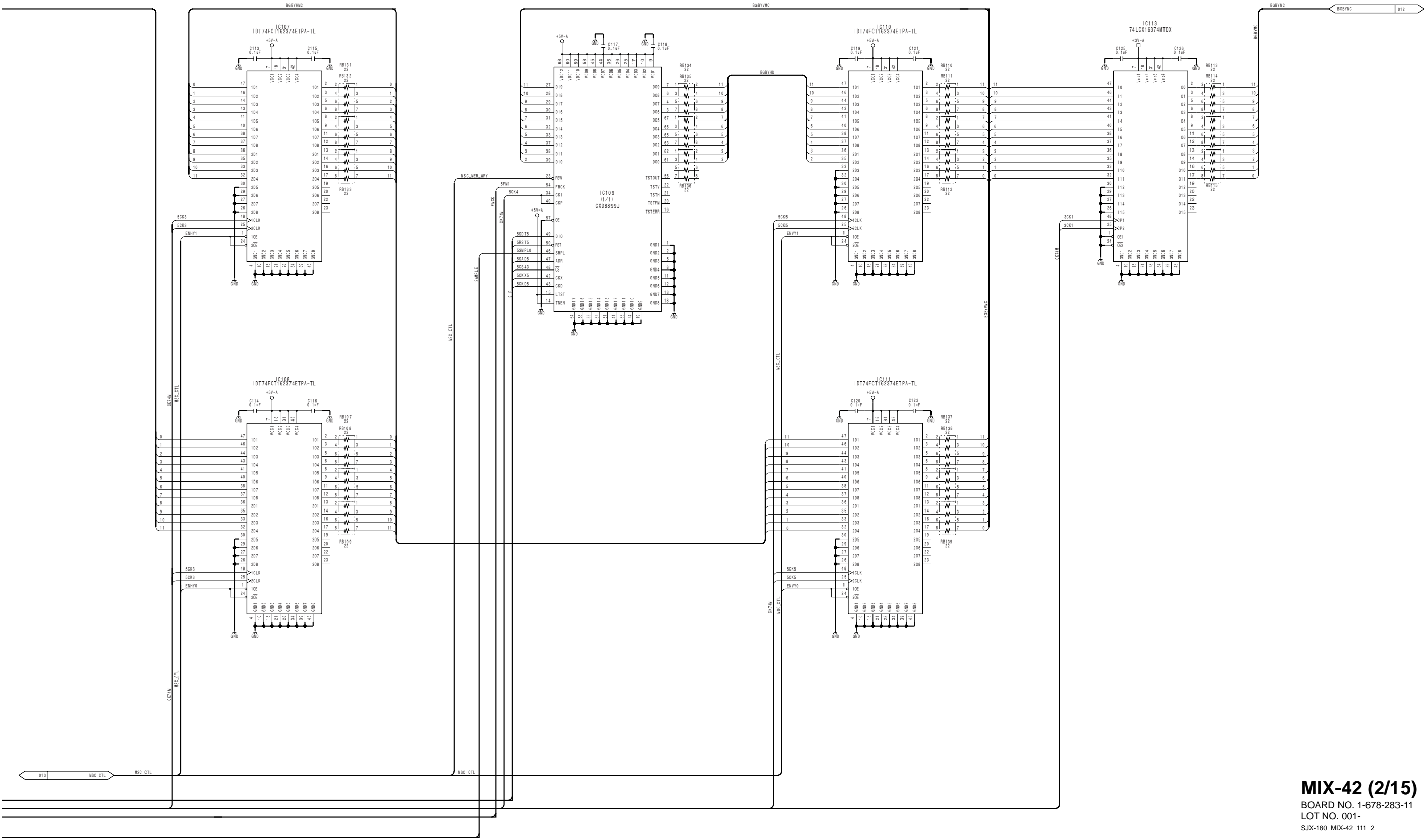


MIX-42 (1/15)

BOARD NO. 1-678-283-11
LOT NO. 001-
S-JX-180_MIX-42_111_1

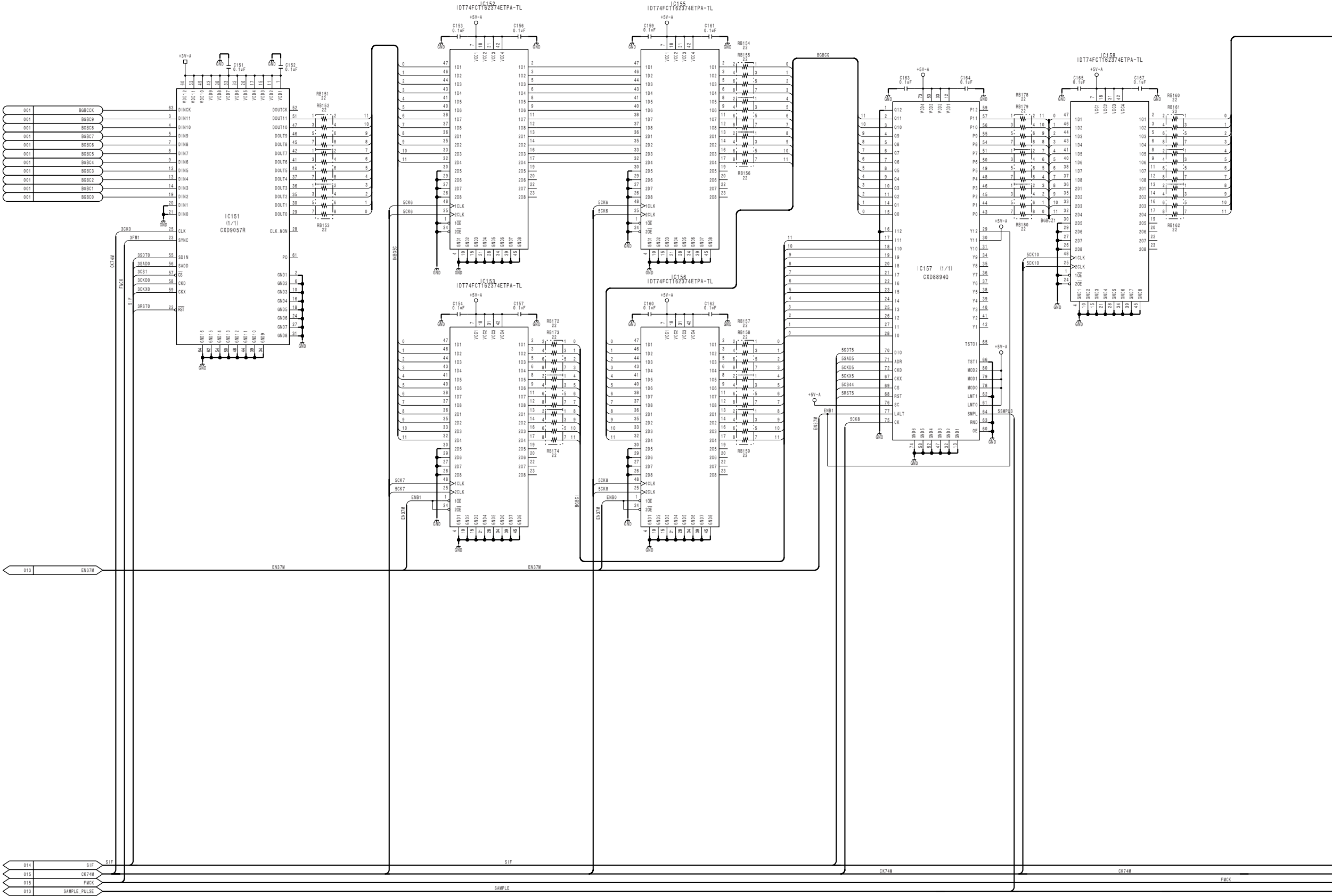
BKE-701 (SY) : S/N 10001 and Higher

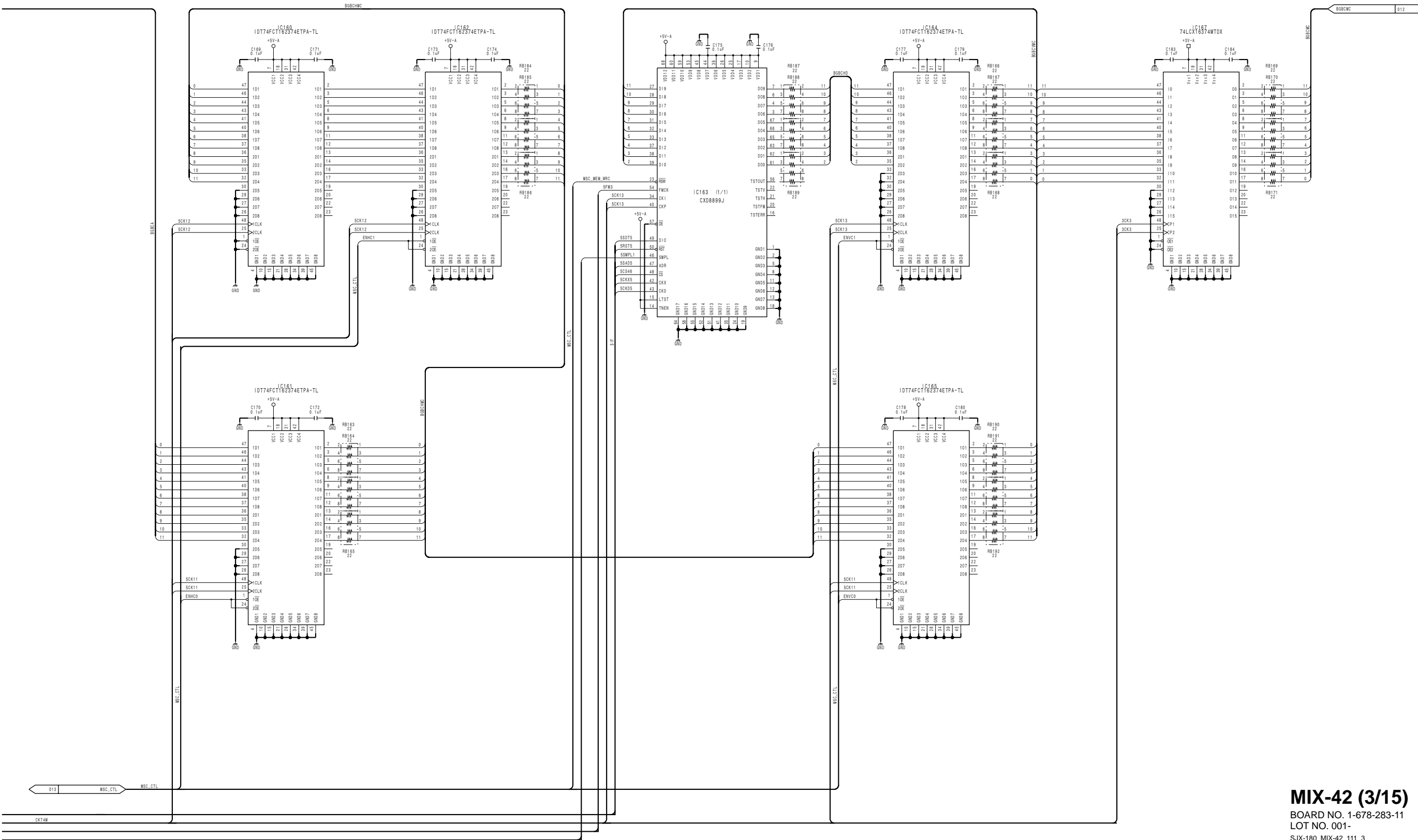




MIX-42 (2/15)
BOARD NO. 1-678-283-11
LOT NO. 001-
SJX-180_MIX-42_111_2

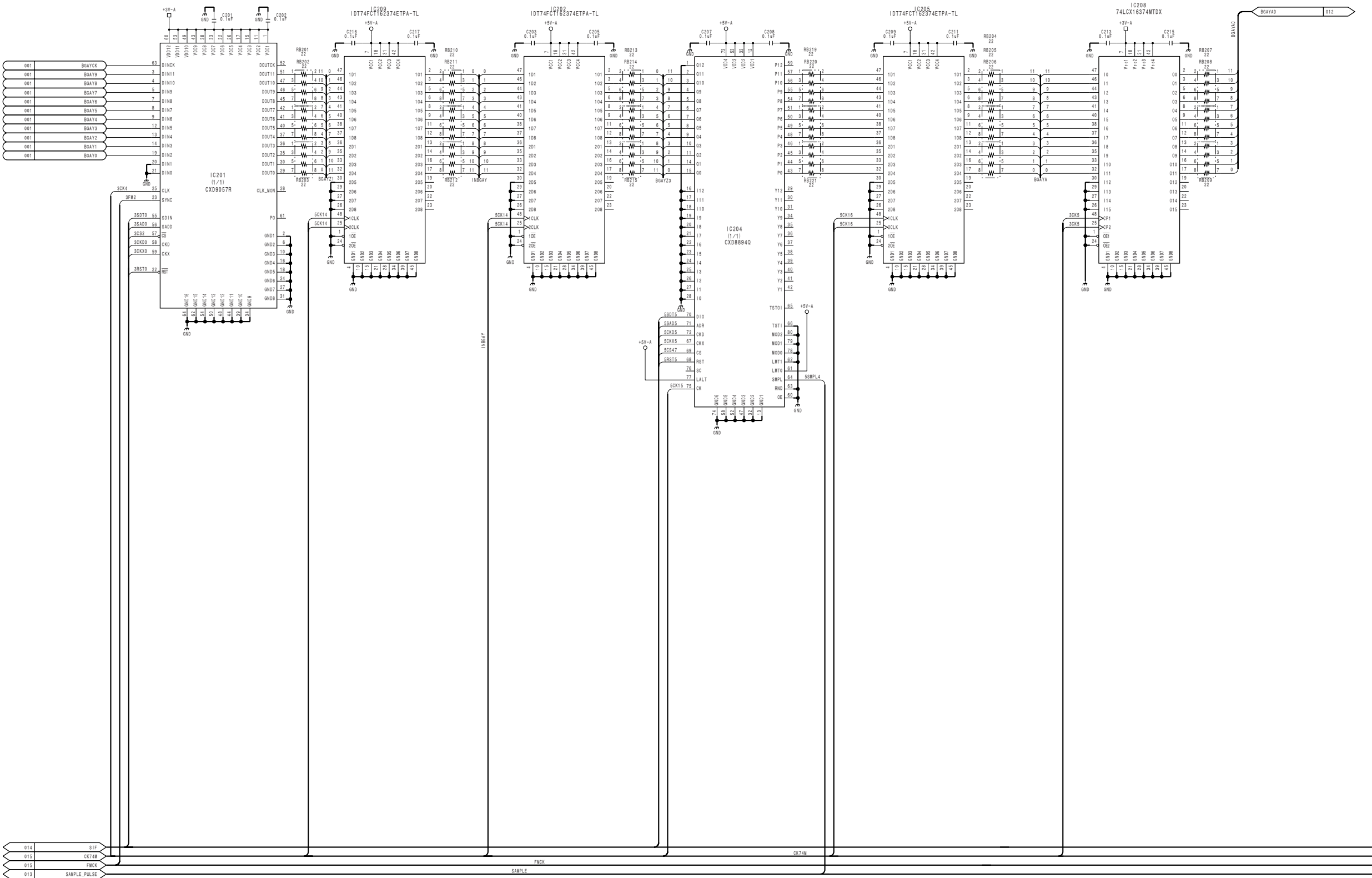
BKE-701 (SY) : S/N 10001 and Higher

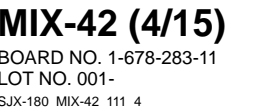




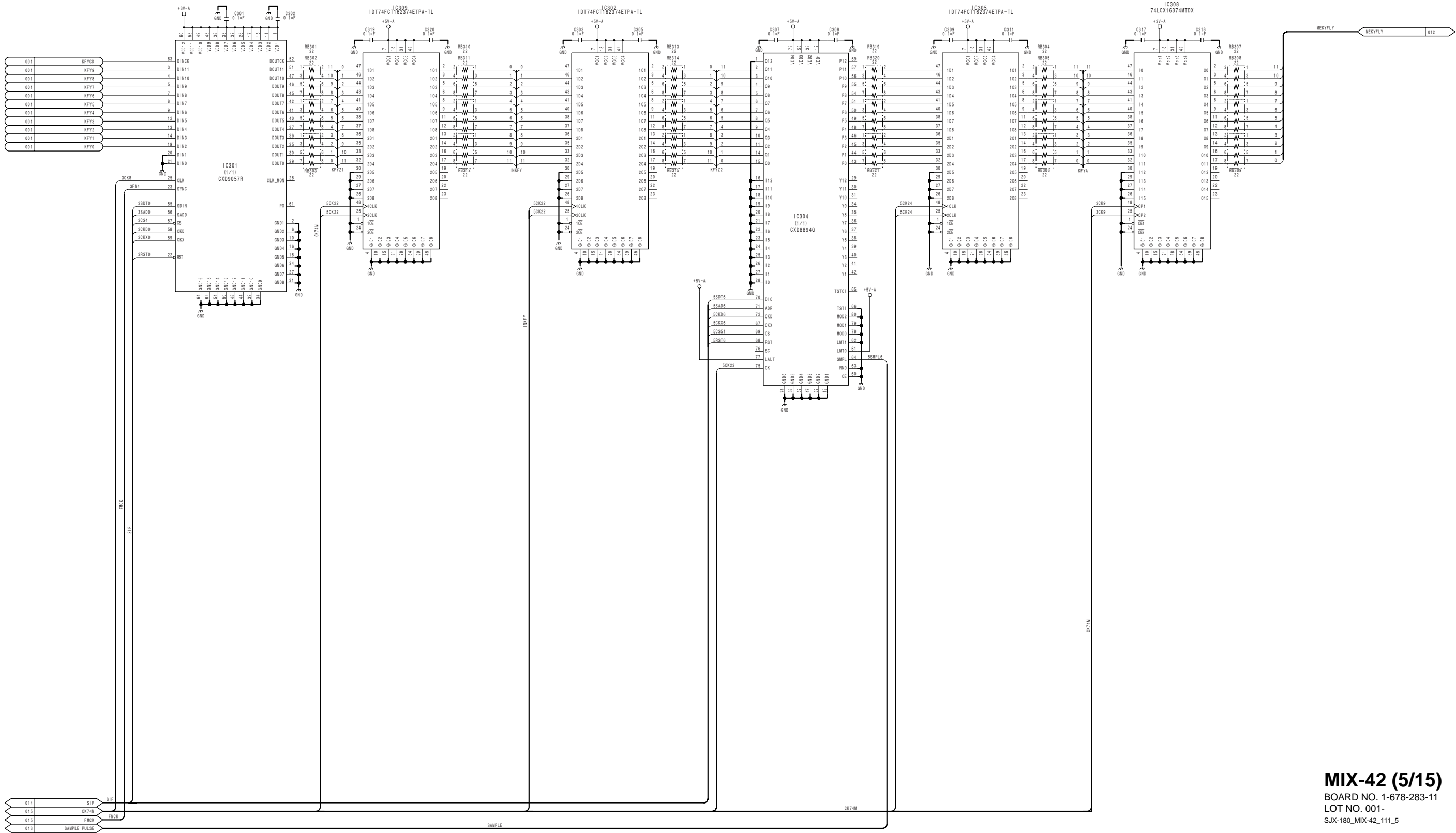
MIX-42 (3/15)
BOARD NO. 1-678-283-11
LOT NO. 001-
SJX-180_MIX-42_111_3

BKE-701 (SY) : S/N 10001 and Higher



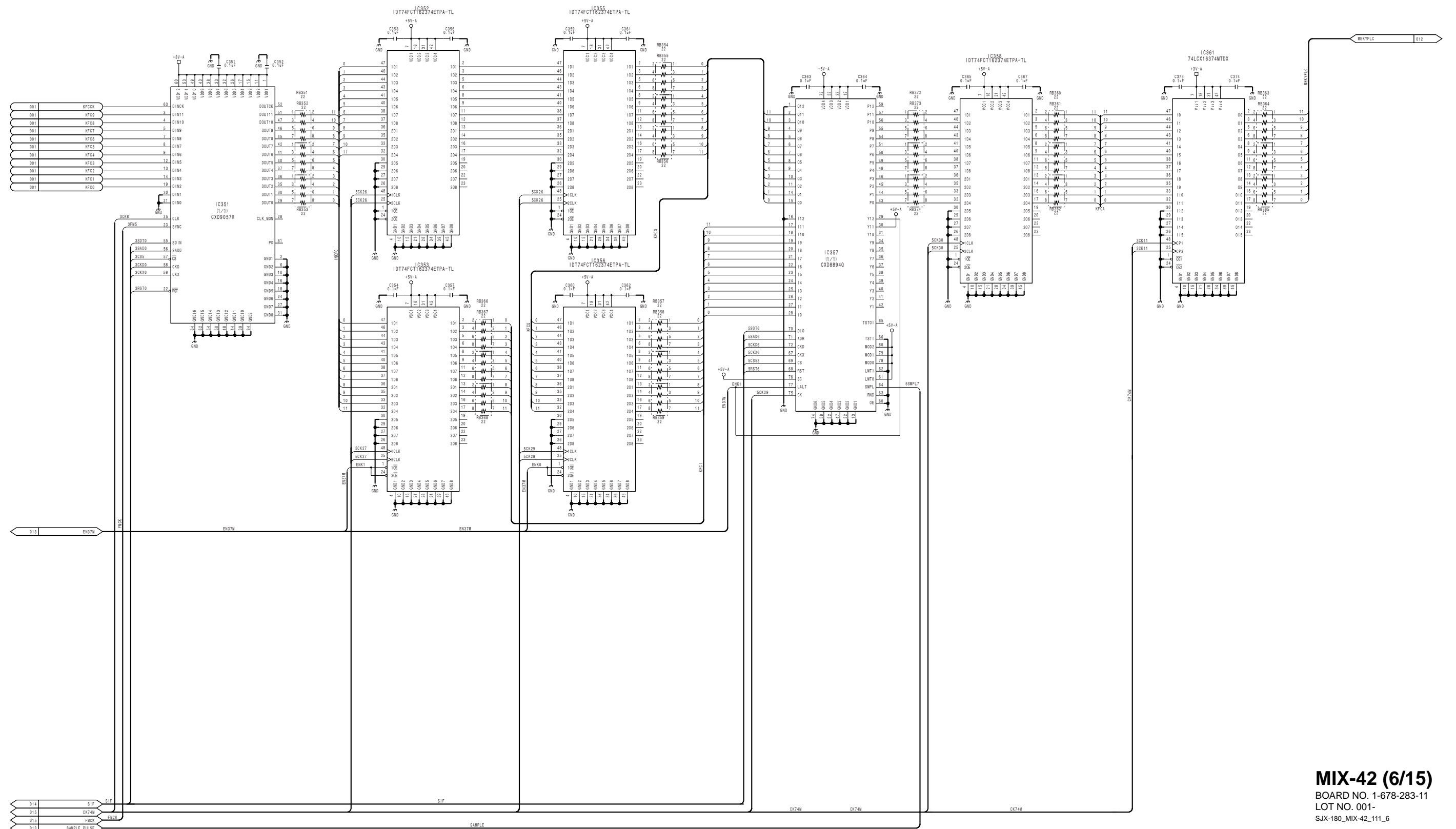


BKE-701 (SY) : S/N 10001 and Higher



MIX-42 (5/15)
BOARD NO. 1-678-283-11
LOT NO. 001-
SJX-180_MIX-42-111_5

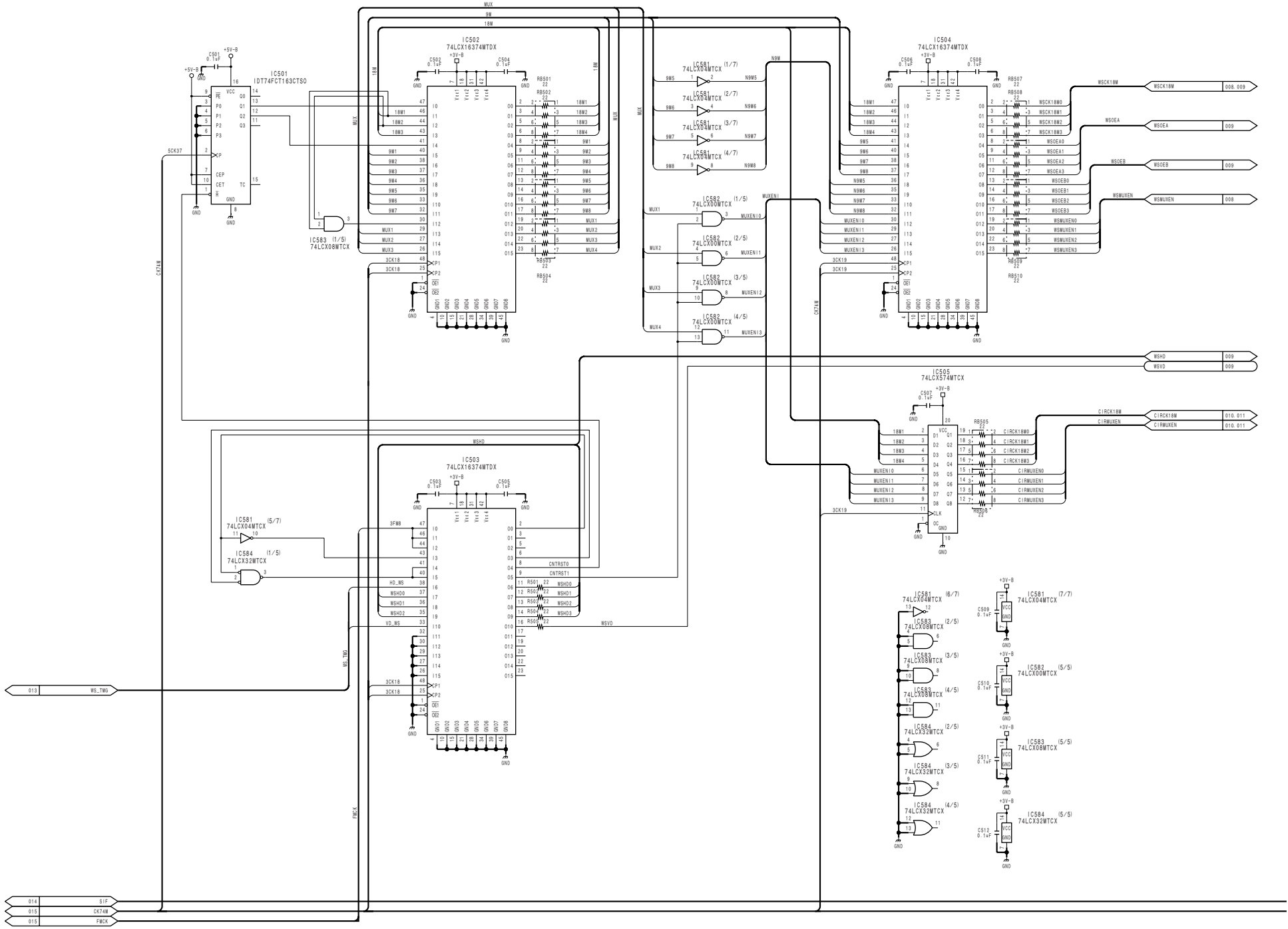
BKE-701 (SY) : S/N 10001 and Higher

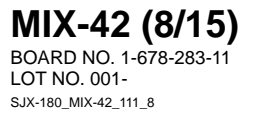


MIX-42 (6/15)
BOARD NO. 1-678-283-11
LOT NO. 001-
SJX-180_MIX-42_111_6

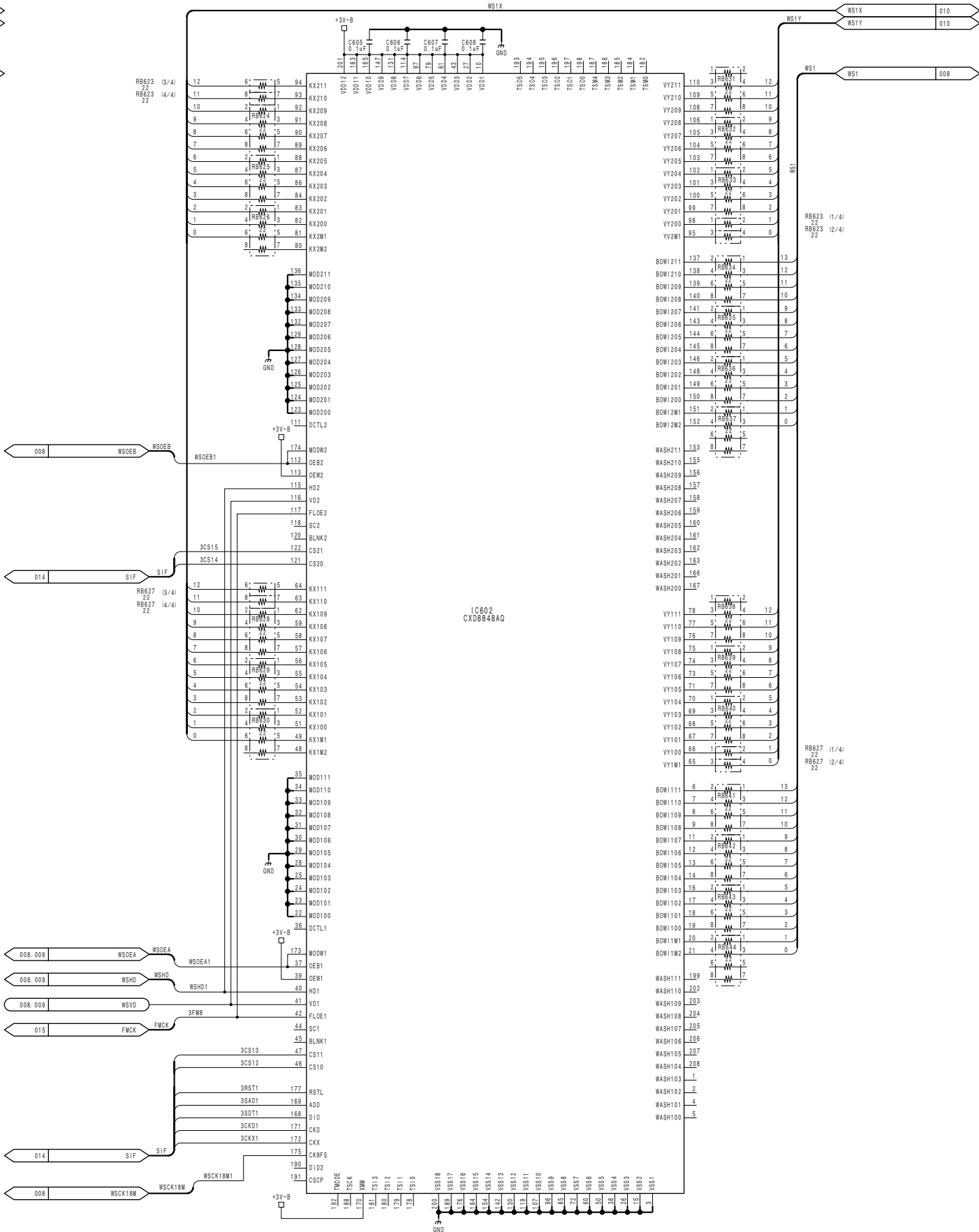
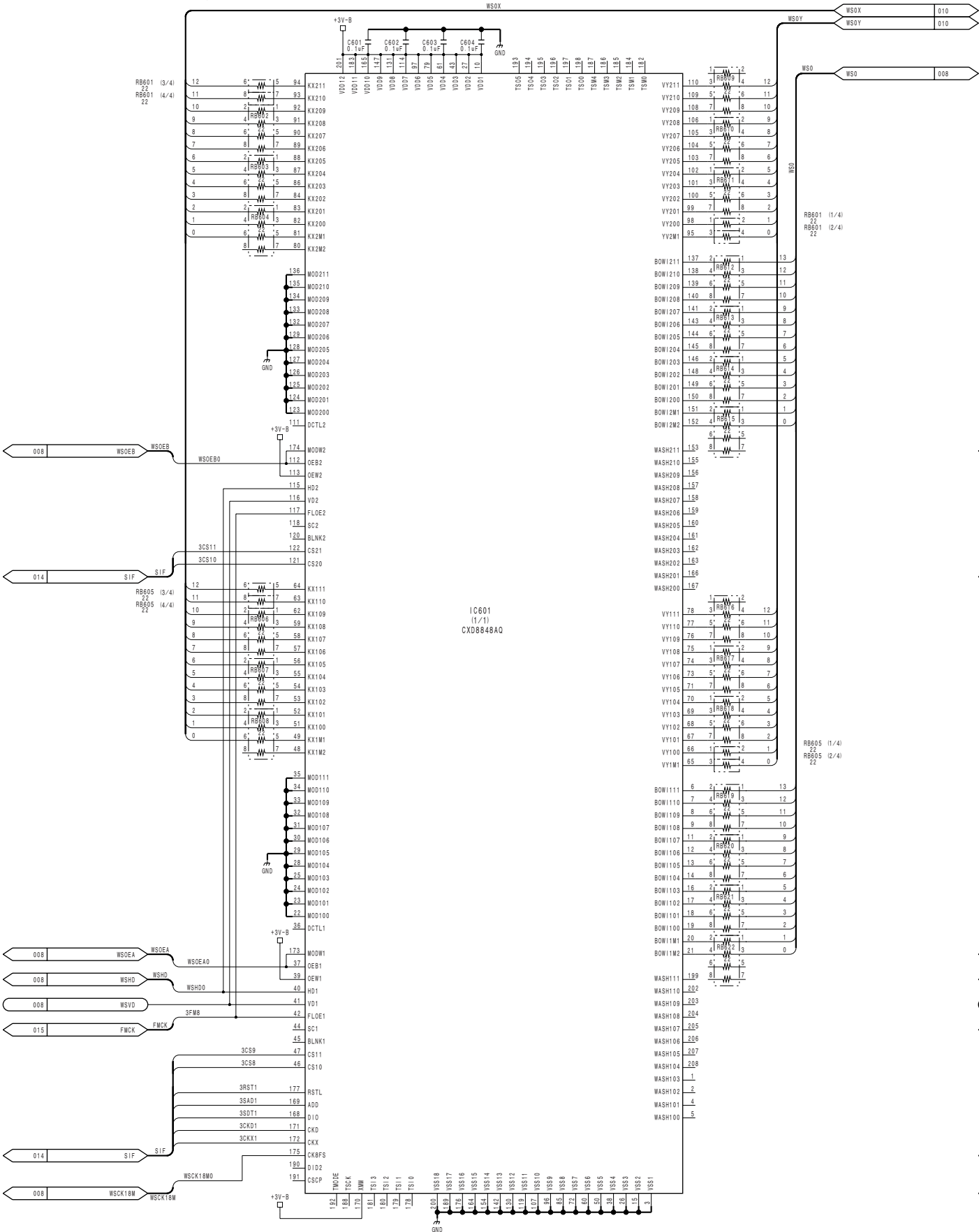
MIX-42 (7/15)
BOARD NO. 1-678-283-11
LOT NO. 001-
SJX-180_MIX-42_111_7

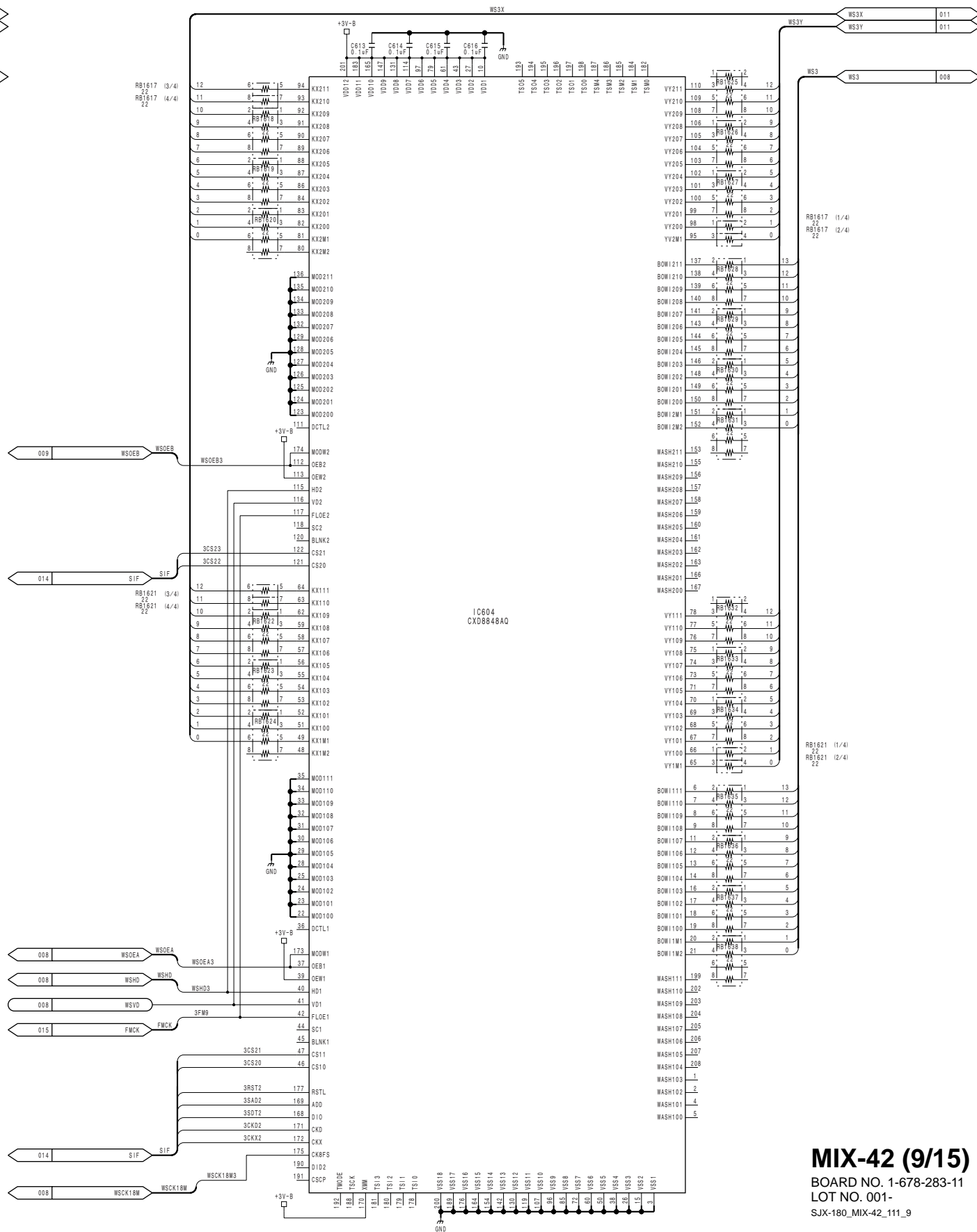
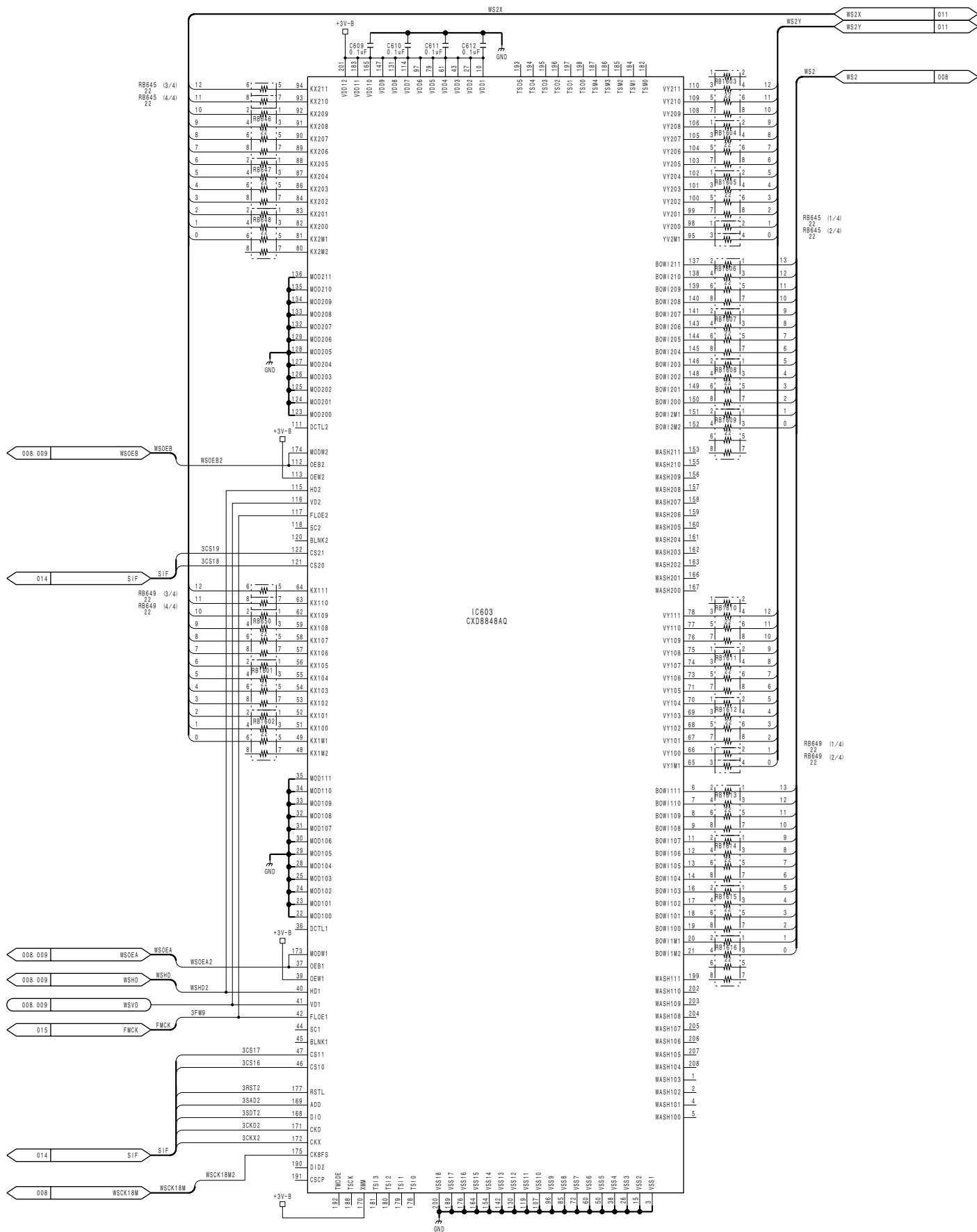
BKE-701 (SY) : S/N 10001 and Higher





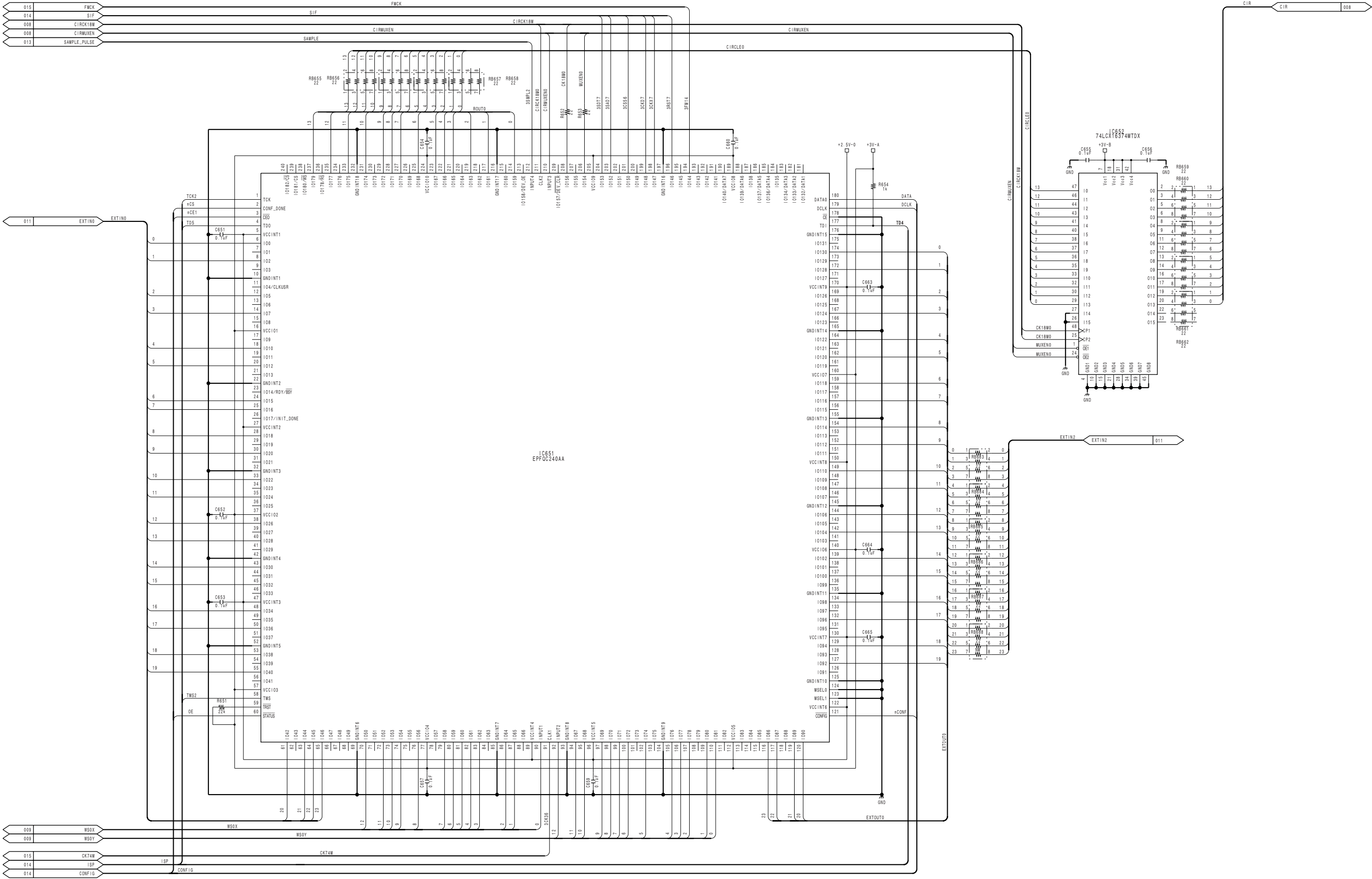
BKE-701 (SY) : S/N 10001 and Higher

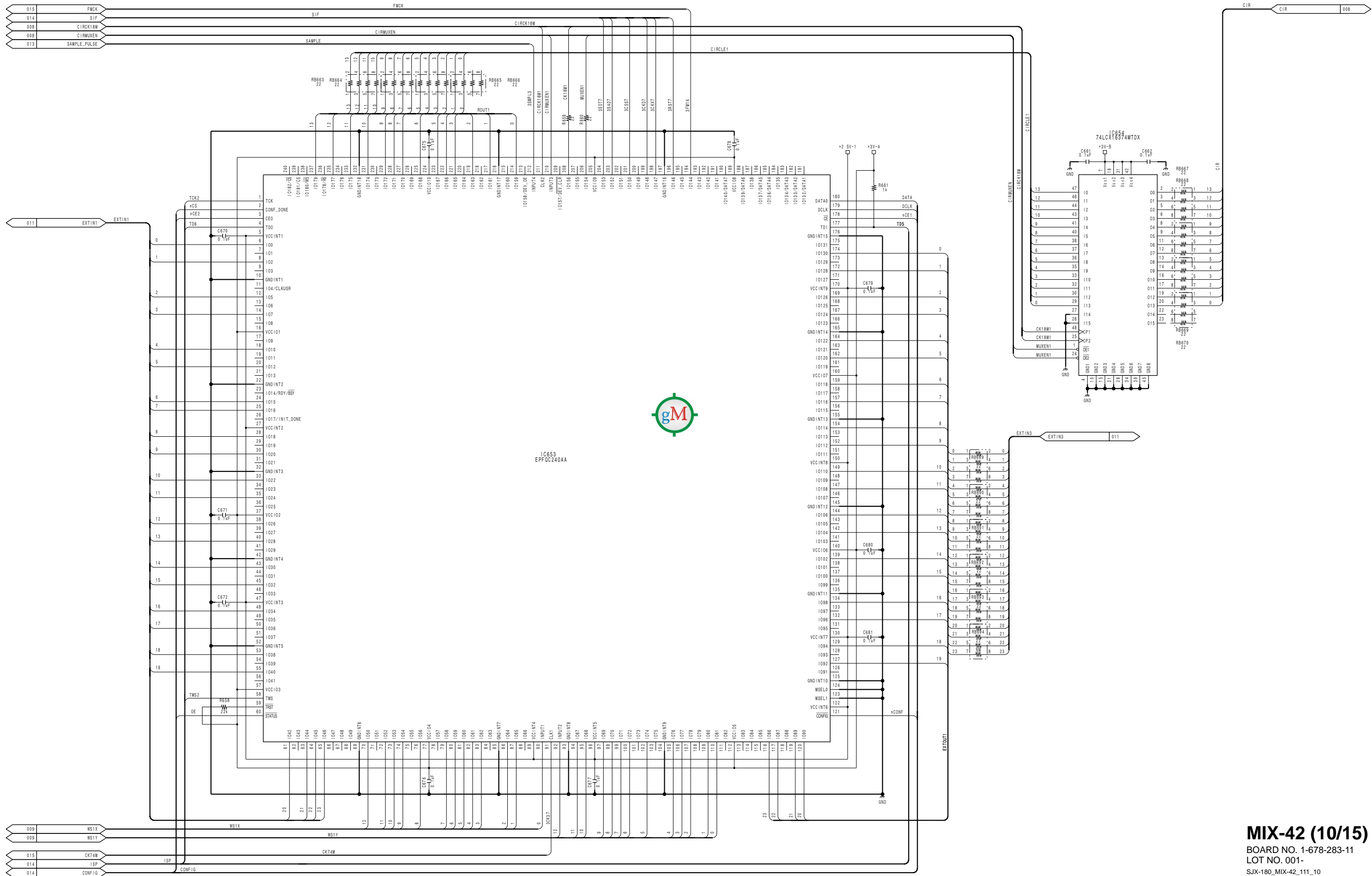




MIX-42 (9/15)
BOARD NO. 1-678-283-11
LOT NO. 001-
SJX-180_MIX-42_111_9

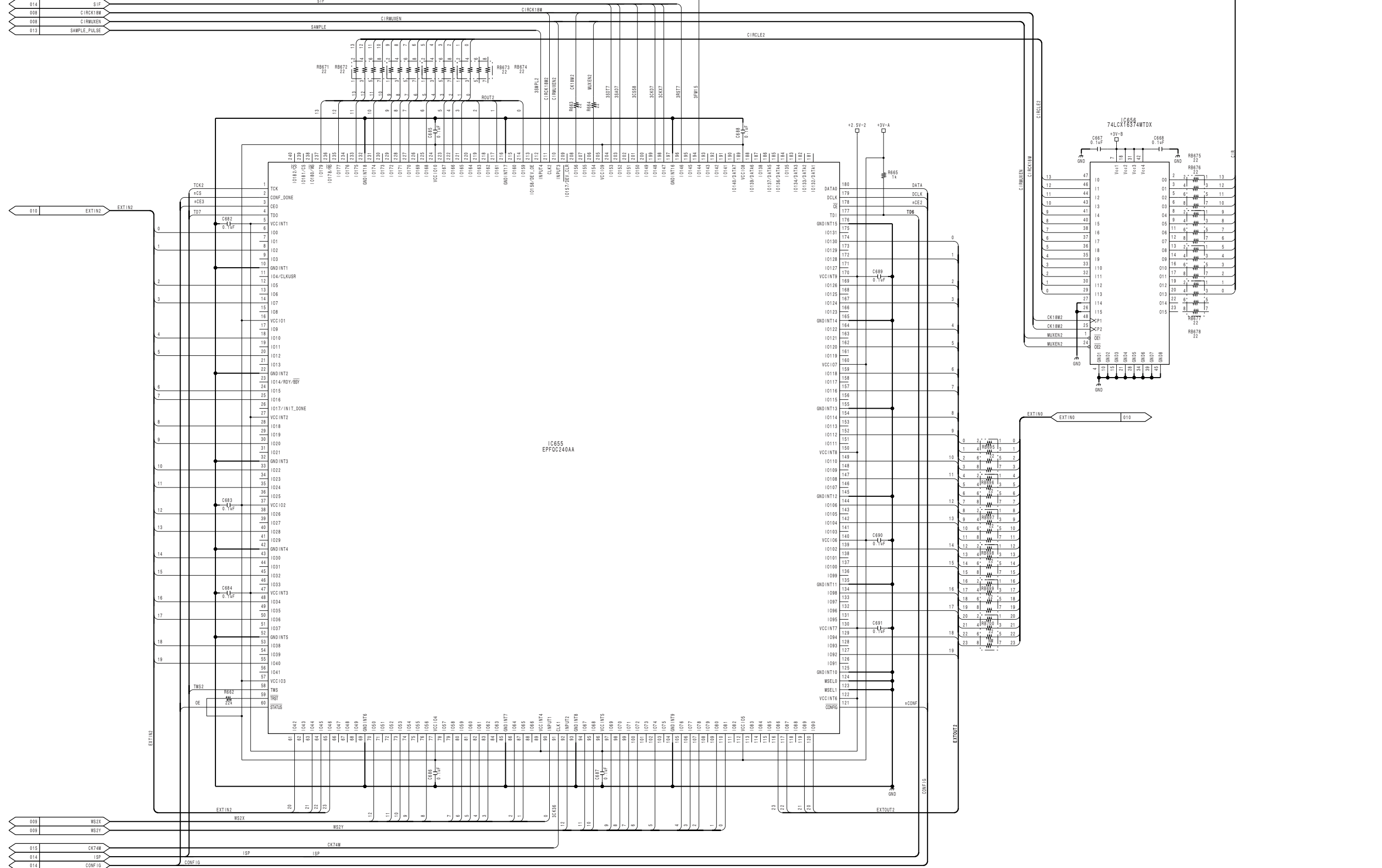
BKE-701 (SY) : S/N 10001 and Higher





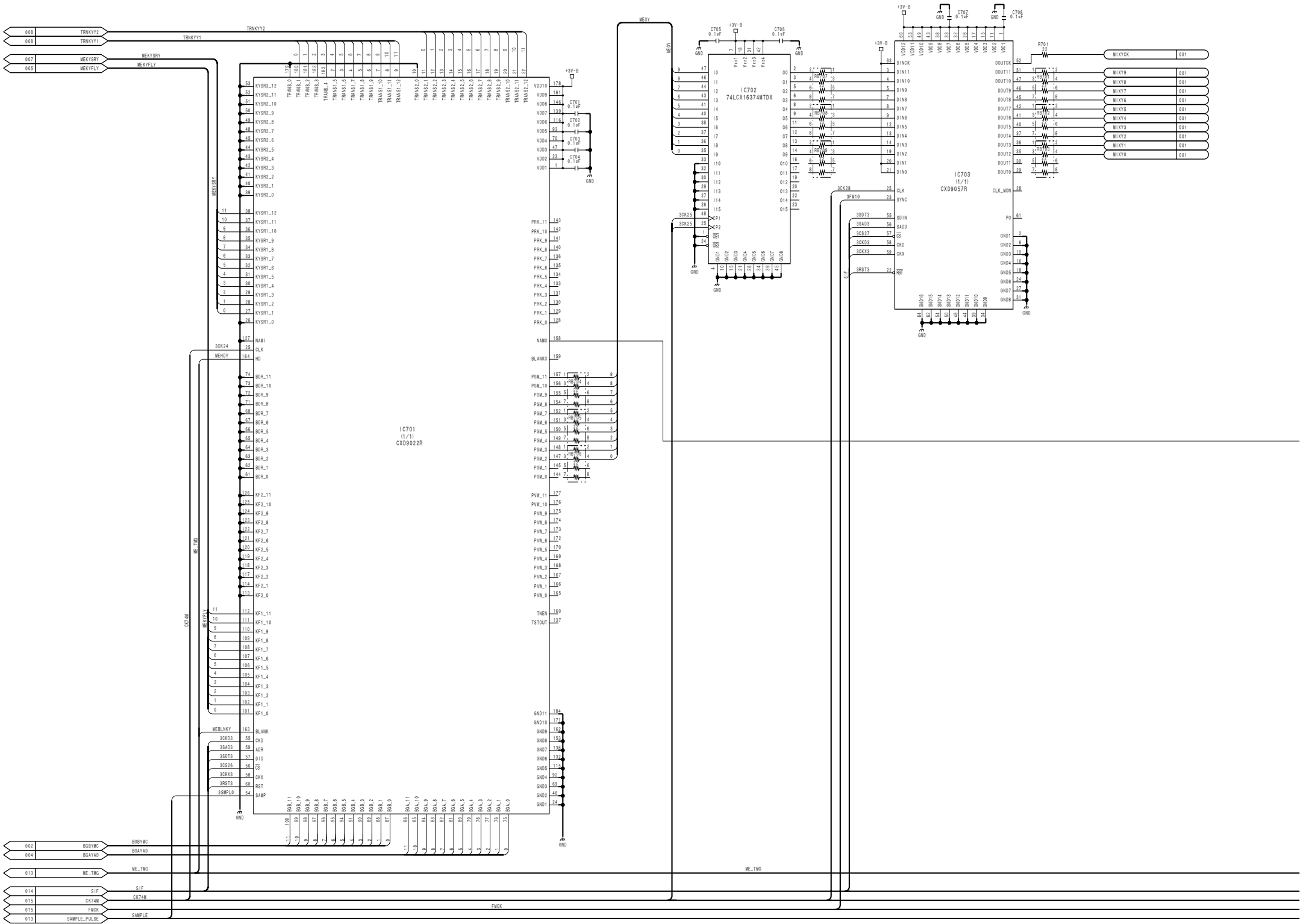
MIX-42 (10/15)
BOARD NO. 1-678-283-11
LOT NO. 001-
SJX-180_MIX-42_111_10

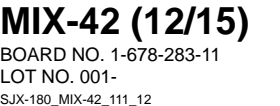
014	SIF
008	CIRCK18M



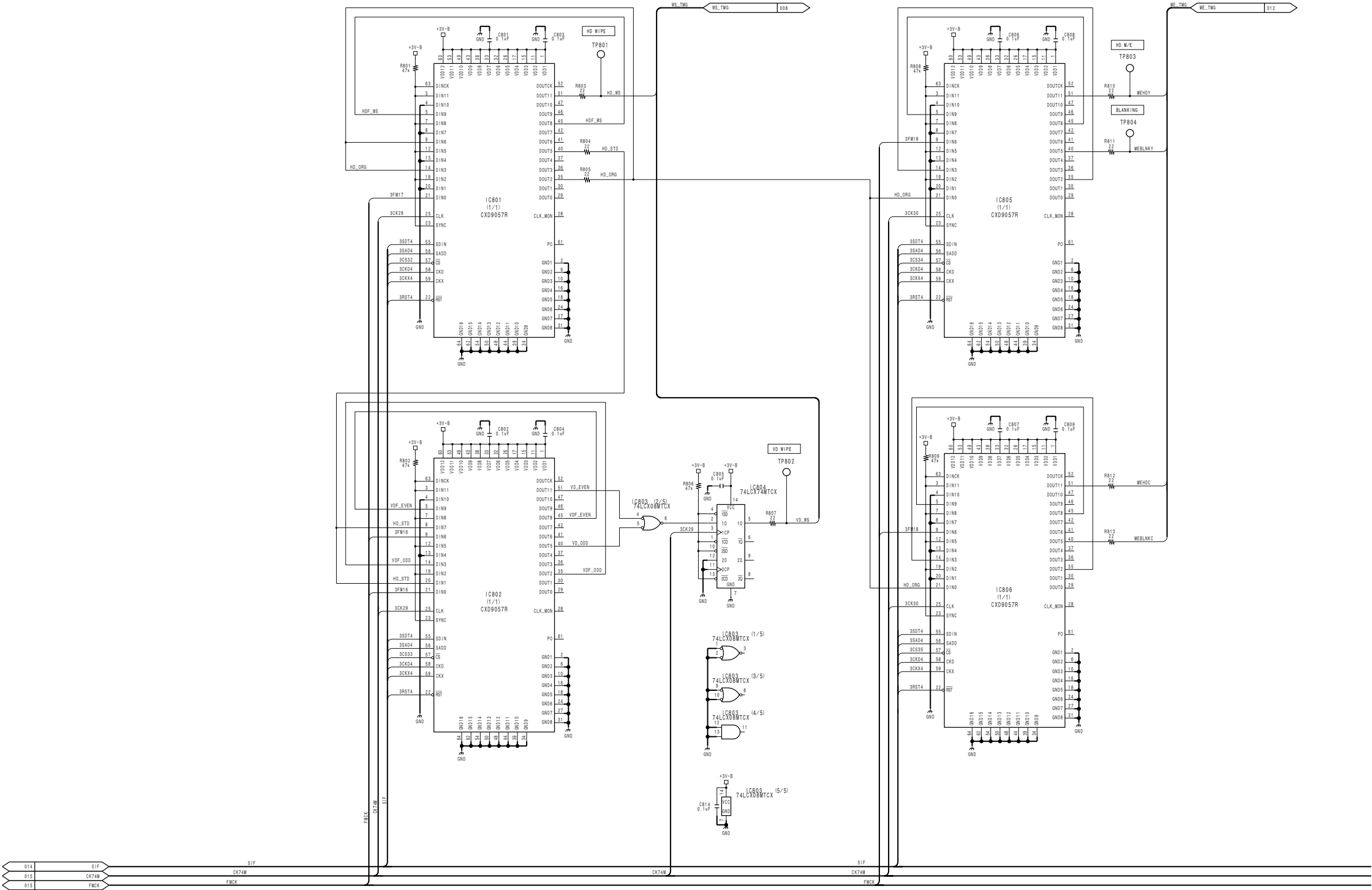


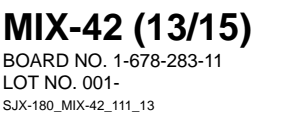
BKE-701 (SY) : S/N 10001 and Higher



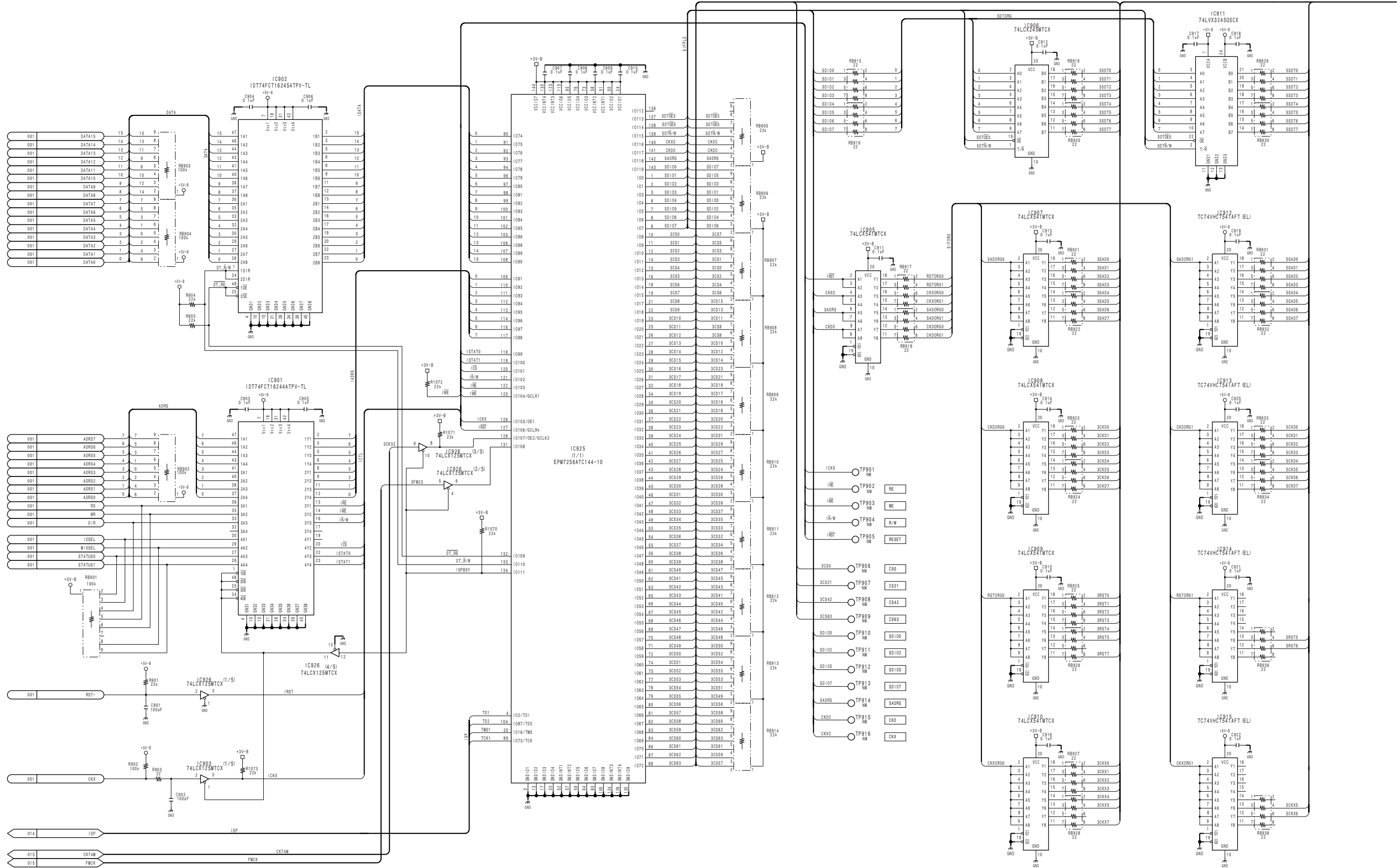


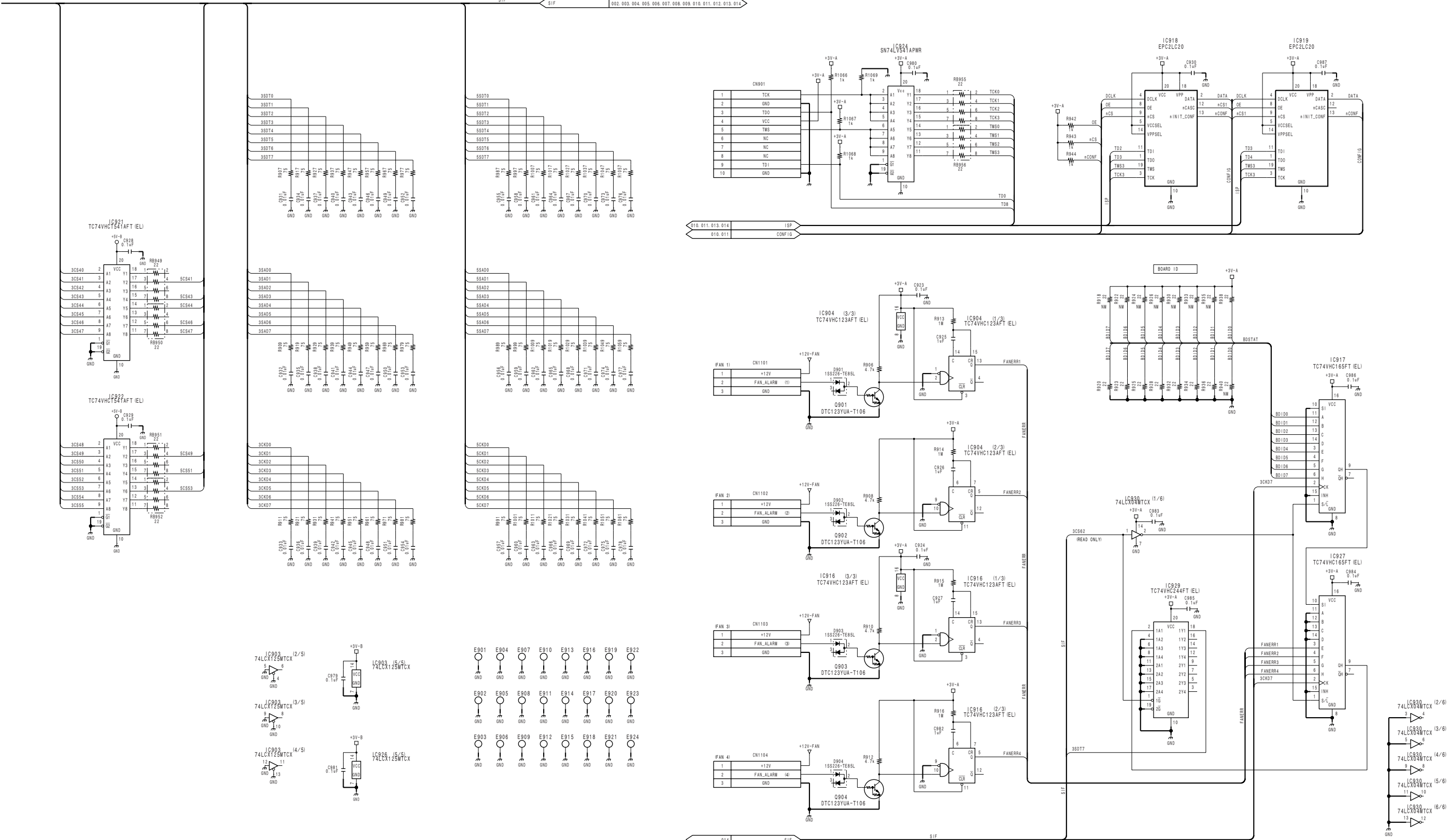
BKE-701 (SY) : S/N 10001 and Higher





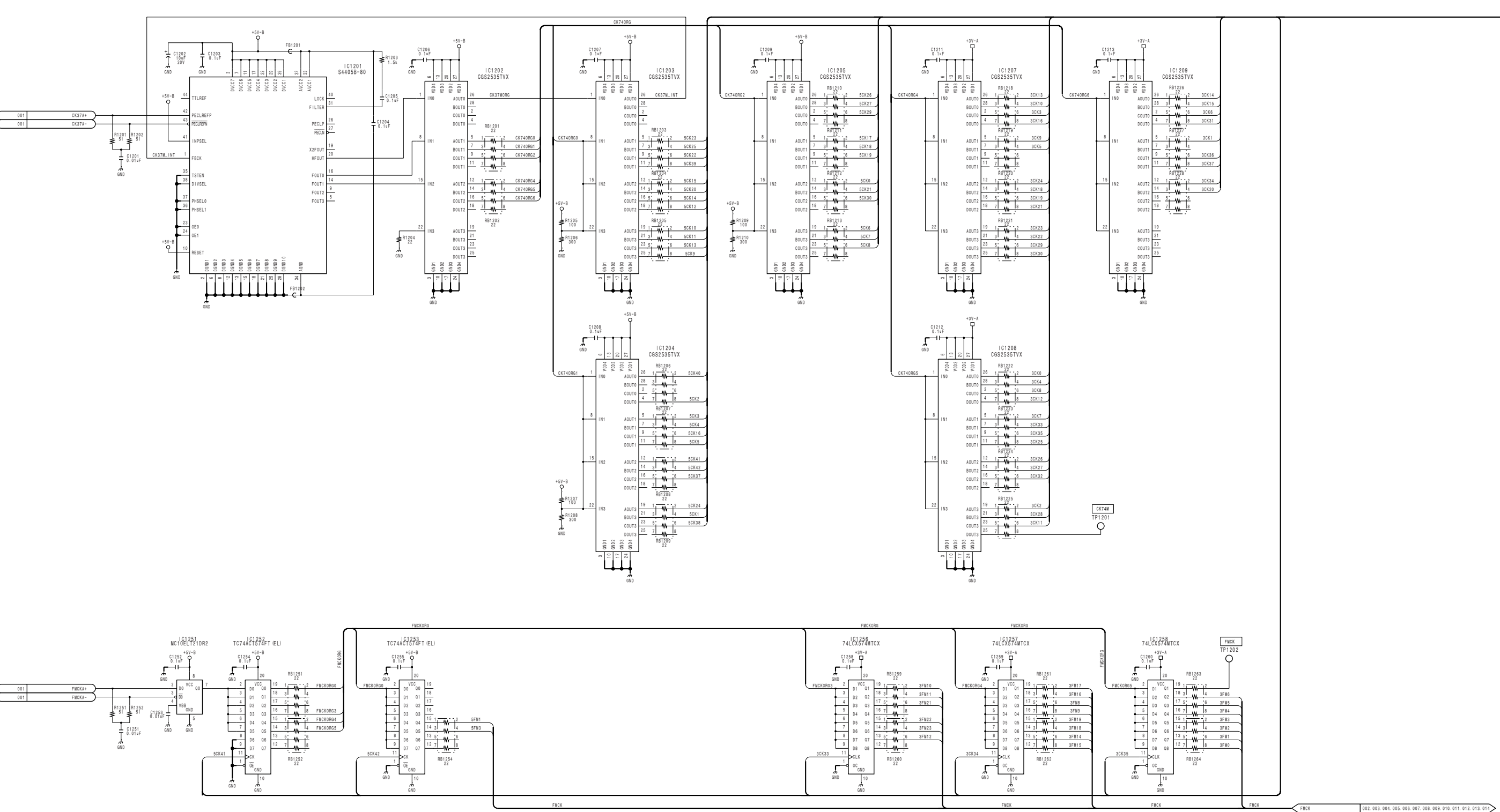
BKE-701 (SY) : S/N 10001 and Higher

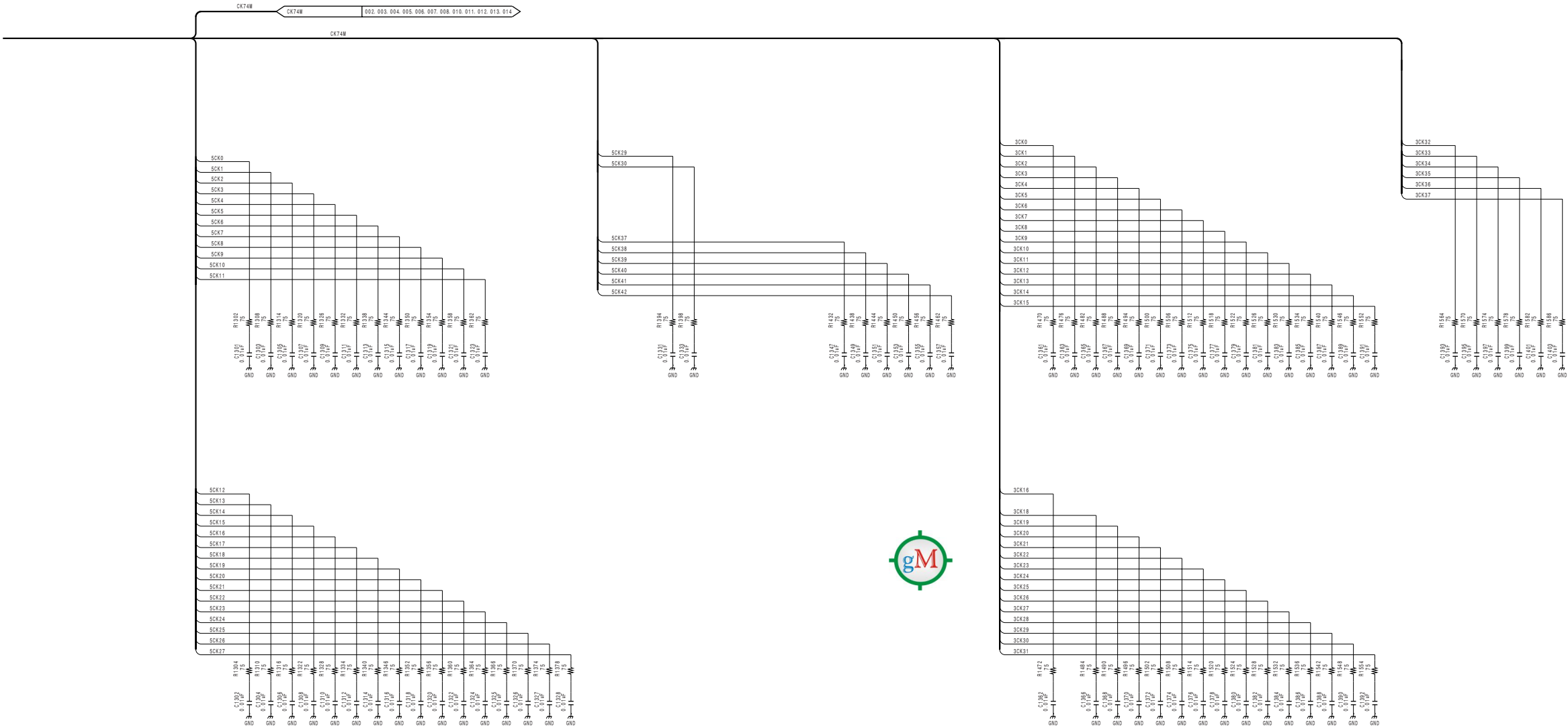




MIX-42 (14/15)
BOARD NO. 1-678-283-11
LOT NO. 001-
SJX-180_MIX-42_111_14

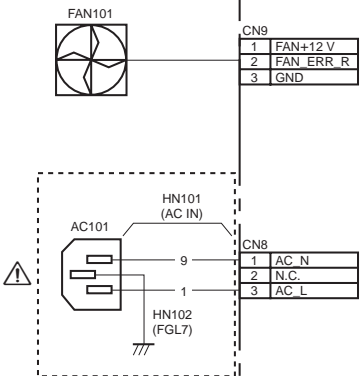
BKE-701 (SY) : S/N 10001 and Higher



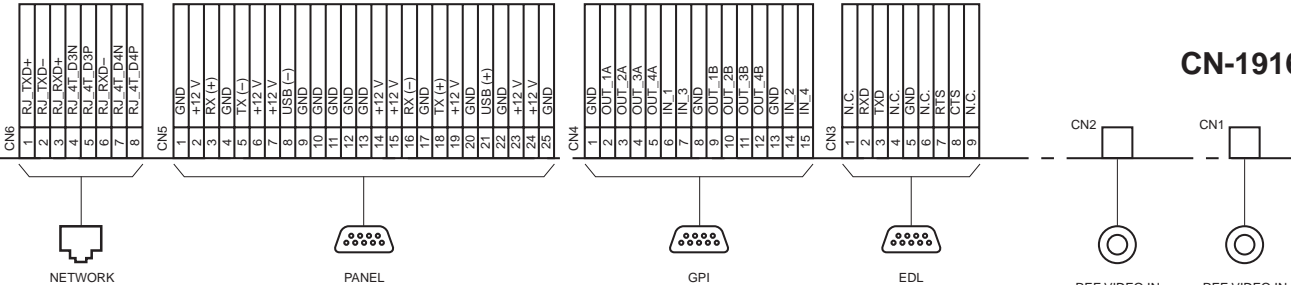
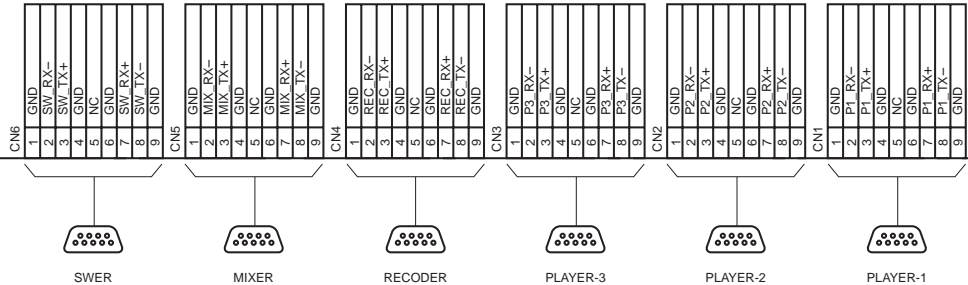


MIX-42 (15/15)
BOARD NO. 1-678-283-11
LOT NO. 001-
SJX-180_MIX-42_111_15

MB-873 (1/3)



CN-1915



FG	e	d	c	b	a	Z	A	B	C	D	E	F
GND	GND	GND	GND	GND	GND	1	GND	GND	GND	GND	GND	GND
N.C.	NET RX+	NET RX+	GND	NET TX-	GND	2	GND	(NET TX-)	GND	(NET RX+)	(NET RX-)	GND
N.C.	NET BH+	NET BH+	GND	NET B3+	3	GND	(NET B3+)	(NET B3+)	GND	(NET BH+)	(NET BH-)	GND
N.C.	GND	GND	GND	GND	4	GND	GND	GND	GND	GND	GND	GND
N.C.	GND	GND	GND	GND	5	GND	GND	GND	GND	GND	GND	GND
N.C.	GND	GND	GND	GND	6	GND	GND	GND	GND	GND	GND	GND
N.C.	C SPR3	C SPR6	GND	C SPR1	C SPR0	7	GND	C SPR4	C SPR5	C SPR2	C SPR3	GND
N.C.	C SPR11	C SPR10	GND	C SPR9	C SPR8	8	GND	C SPR2	GND	C SPR10	C SPR11	GND
N.C.	C SPR15	C SPR14	GND	C SPR12	C SPR12	9	GND	C SPR3	GND	C SPR14	C SPR15	GND
N.C.	STRIP	C SPR16	GND	C SPR16	C SPR16	10	GND	C SPR17	GND	C SPR18	DOBE	GND
N.C.	GND	GND	N.C.	N.C.	C SPR16	11	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	12	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	13	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	14	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	15	GND	N.C.	GND	N.C.	N.C.	N.C.
N.C.	RS1-	DIR	GND	WR	GND	16	GND	WR	GND	DIR	RS1-	GND
N.C.	STRIP	STRIP	GND	MXSEL	DOBE	17	GND	DOBE	GND	STRIP	STRIP	GND
N.C.	STRIP	STRIP	GND	MXSEL	ADRS0	18	GND	ADRS0	GND	STRIP	STRIP	GND
N.C.	STRIP	STRIP	GND	ADRS5	ADRS5	19	GND	ADRS5	GND	ADRS5	ADRS5	GND
N.C.	ADRS7	ADRS6	GND	ADRS5	ADRS4	19	GND	ADRS4	GND	ADRS6	ADRS7	GND
N.C.	GND	GND	GND	GND	GND	20	GND	GND	GND	GND	GND	GND
GND	DATA3	DATA2	GND	DATA1	DATA0	21	GND	DATA0	GND	DATA3	DATA2	GND
N.C.	DATA7	DATA6	GND	DATA5	DATA4	22	GND	DATA4	GND	DATA6	DATA7	GND
N.C.	DATA15	DATA14	GND	DATA13	DATA12	23	GND	DATA12	GND	DATA14	DATA15	GND
N.C.	DATA15	DATA14	GND	DATA13	DATA12	24	GND	DATA12	GND	DATA14	DATA15	GND
N.C.	DATA15	DATA14	GND	DATA13	DATA12	25	GND	DATA12	GND	DATA14	DATA15	GND
N.C.	DATA15	DATA14	GND	DATA13	DATA12	26	GND	DATA12	GND	DATA14	DATA15	GND

[illegible]

FG	GND	+12 V	+12 V	c	b	a	Z	A	B	C	D	E	F
N.C.	+12 V	+12 V	+12 V		+12 V	1	1	+12 V	+12 V	+12 V	+12 V	+12 V	GND
GND	+12 V	+12 V	+12 V		+12 V	2	2	+12 V	+12 V	+12 V	+12 V	+12 V	GND
N.C.	+12 V	+12 V	+12 V		+12 V	3	3	+12 V	+12 V	+12 V	+12 V	+12 V	GND
GND	+12 V	+12 V	+12 V		+12 V	4	4	+12 V	+12 V	+12 V	+12 V	+12 V	GND
GND	R LED	G LED	FAN ERR	DC ERR	AC ERR	5	5	AC ERR	DC ERR	FAN ERR	G LED	R LED	GND
N.C.	GND	GND	FAN ERR			6	6	GND	GND	GND	GND	GND	GND
N.C.	FUSE IO	FAN ERR S	FAN ERR U	FAN ERR R	FUSE MIX T	7	7	FUSE MIX T	FAN ERR R	FAN ERR U	FAN ERR S	FUSE IO	GND
N.C.	CK37B+	CK37A+	CK37A+	CK37A+	CK37A+	8	8	CK37A+	CK37A+	CK37B+	CK37B+	CK37B+	GND
GND	GND	GND	GND	GND	GND	9	9	GND	GND	GND	GND	GND	GND
GND	GND	GND	FAN ERR	FAN ERR	FAN ERR	10	10	FAN ERR	FAN ERR	GND	GND	GND	GND
GND	REF	GND	FAN ERR	FAN ERR	FAN ERR	11	11	GND	T_SPPR1	GND	GND	REF	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	12	12	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
GND	N.C.	N.C.	N.C.	N.C.	N.C.	13	13	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	14	14	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
N.C.	T_SPPR3	T_SPPR2	FANCKB+	FANCKB+	FANCKB+	15	15	GND	FANCKB+	GND	T_SPPR2	T_SPPR3	GND
N.C.	GND	GND	GND	GND	GND	16	16	GND	FANCKB+	GND	T_SPPR2	T_SPPR3	GND
GND	GND	GND	GND	GND	GND	17	17	GND	GND	GND	GND	GND	GND
N.C.	PANEL+12 V	PANEL+12 V	PANEL+12 V	PANEL+12 V	PANEL+12 V	18	18	GND	PANEL+12 V	PANEL+12 V	PANEL+12 V	PANEL+12 V	GND
GND						19	19	GND					GND
N.C.						20	20	GND					GND
GND						21	21	GND					GND
N.C.						22	22	GND					GND
N.C.						23	23	GND					GND
N.C.						24	24	GND					GND
N.C.	GND	GND	GND	GND	GND	25	25	GND	GND	GND	GND	GND	GND

	CN2				CN2			
	GND	1	GND					
	GND	2	GND					
	+5V	3	+5V					
	+5V	4	+5V					
	+5V	5	+5V					
	+5V	6	+5V					
	A2	7	A2					
	A3	8	A3					
	A4	9	A4					
	A5	10	A5					
	A6	11	A6					
	A7	12	A7					
	A8	13	A8					
	A9	14	A9					
	A10	15	A10					
	A11	16	A11					
	A12	17	A12					
	A13	18	A13					
	A14	19	A14					
	A15	20	A15					
	A16	21	A16					
	A17	22	A17					
	A18	23	A18					
	A19	24	A19					
	A20	25	A20					
	A21	26	A21					
	A22	27	A22					
	BK	28	BK					
	BK	29	BK					
	BK	30	BK					
	BK	31	BK					
	BK	32	BK					
	WE0	32	WE0					
	WE1	33	WE1					
	WE2	34	WE2					
	WE3	35	WE3					
	RESET	37	RESET					
	CS	38	CS					
	GND	39	GND					
	GND	40	GND					

GND	1	GND
GND	2	GND
GND	3	GND
GND	4	GND
D01	5	D01
D02	6	D02
D03	7	D03
D04	8	D04
D05	9	D05
D06	10	D06
D07	11	D07
D08	12	D08
D09	13	D09
D10	14	D10
D11	15	D11
D12	16	D12
D13	17	D13
D14	18	D14
D15	19	D15
D16	20	D16
D17	21	D17
D18	22	D18
D19	23	D19
D20	24	D20
D21	25	D21
D22	26	D22
D23	27	D23
D24	28	D24
D25	29	D25
D26	30	D26
D27	31	D27
D28	32	D28
D29	33	D29
D30	34	D30
D31	35	D31
D32	36	D32
D33	37	D33
D34	38	D34
D35	39	D35
D36	40	D36

[illegible]

CN2		CN12	
DAK2	1	1	
DREQ2	2	2	
DAK1	3	3	
DREQ1	4	4	
DAK0	5	5	
DREQ0	6	6	
N.C.	7	7	GND
N.C.	8	8	GND
5 V	9	9	5 V
5 V	10	10	5 V
PCOUNT	11	11	PCOUNT
PCOUNT	12	12	PCOUNT
PCOUNT	13	13	PCOUNT
5 V	14	14	5 V
5 V	15	15	5 V
GND	16	16	GND
GND	17	17	GND
GND	18	18	GND
5 V	19	19	5 V
5 V	20	20	5 V
N.C.	21	21	GND
N.C.	22	22	GND
RST	23	23	RST
CLK1	24	24	CLK1
5 V	25	25	5 V
5 V	26	26	5 V
GND	27	27	GND
GND	28	28	GND
GN1	29	29	GN1
GN2	30	30	GN2
5 V	31	31	5 V
AD30	32	32	AD30
AD30	33	33	AD30
3 V	34	34	3 V
3 V	35	35	3 V
AD27	36	36	AD27
AD27	37	37	AD27
AD26	38	38	AD26
AD25	39	39	AD25
GND	40	40	GND
3 V	41	41	3 V
AD24	42	42	AD24
AD24	43	43	AD24
IOSEL0	44	44	IOSEL0
AD23	45	45	AD23
3 V	46	46	3 V
GND	47	47	GND
AD22	48	48	AD22
AD21	49	49	AD21
AD20	50	50	AD20
AD20	51	51	AD20
GND	52	52	GND
3 V	53	53	3 V
AD18	54	54	AD18
AD17	55	55	AD17
AD16	56	56	AD16
GBE2	57	57	GBE2
3 V	58	58	3 V
3 V	59	59	3 V
FRAME	60	60	FRAME
JRDY	61	61	JRDY
GND	62	62	GND
GND	63	63	GND
TRDY	64	64	TRDY
DEVSEL	65	65	DEVSEL
GND	66	66	GND
GND	67	67	GND
STOP	68	68	STOP
LOCK	69	69	LOCK
3 V	70	70	3 V
PERF	71	71	PERF
3 V	72	72	3 V
SERR	73	73	SERR
3 V	74	74	3 V
PAR	75	75	PAR
PAR	76	76	PAR
CBEL	77	77	CBEL
AD15	78	78	AD15
AD14	79	79	AD14
3 V	80	80	3 V
GND	81	81	GND
AD13	82	82	AD13
AD13	83	83	AD13
AD11	84	84	AD11
AD10	85	85	AD10
GND	86	86	GND
GND	87	87	GND
IOSEL1	88	88	IOSEL1
AD9	89	89	AD9
AD9	90	90	AD9
AD8	91	91	AD8
CBEL	92	92	CBEL
AD7	93	93	AD7
3 V	94	94	3 V
3 V	95	95	3 V
AD6	96	96	AD6
AD5	97	97	AD5
AD4	98	98	AD4
GND	99	99	GND
GND	100	100	GND
AD2	101	101	AD2
AD2	102	102	AD2
AD1	103	103	AD1
AD0	104	104	AD0
5 V	105	105	5 V
5 V	106	106	5 V
5 V	107	107	5 V
5 V	108	108	5 V
5 V	109	109	5 V
5 V	110	110	5 V
EXTXD1	111	111	EXTXD1
ERRXD1	112	112	ERRXD1
EXTXD0	113	113	EXTXD0
ERRXD0	114	114	ERRXD0
EXTINT15	115	115	EXTINT15
EXTINT15	116	116	EXTINT15
EXTINT16	117	117	EXTINT16
EXTINT14	118	118	EXTINT14
EXTINT15	119	119	EXTINT15
EXTINT13	120	120	EXTINT13
EXTINT4	121	121	EXTINT4
GND	122	122	GND
GND	123	123	GND
GND	124	124	GND
TDB	125	125	TDB
TDB	126	126	TDB
TDA	127	127	TDA
RDA	128	128	RDA

CKG-27

CPU-317A

Processor Unit
Frame Wiring (2/4)
HN-276

CN205		CN205		CN205		CN205	
FG	e	d	c	b	a	Z	F
GND	GND	GND	GND	GND	GND	1 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	2 GND	GND
GND	GND	GND	GND	GND	GND	3 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	4 GND	GND
GND	GND	GND	GND	GND	GND	5 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	6 GND	GND
GND	GND	GND	GND	GND	GND	7 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	8 GND	GND
GND	GND	GND	GND	GND	GND	9 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	10 GND	GND
GND	GND	GND	GND	GND	GND	11 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	12 N.C.	N.C.
GND	GND	GND	GND	GND	GND	13 N.C.	N.C.
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	14 N.C.	N.C.
GND	GND	GND	GND	GND	GND	15 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	16 GND	GND
GND	GND	GND	GND	GND	GND	17 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	18 GND	GND
GND	GND	GND	GND	GND	GND	19 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	20 GND	GND
GND	GND	GND	GND	GND	GND	21 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	22 GND	GND
GND	GND	GND	GND	GND	GND	23 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	24 GND	GND
GND	GND	GND	GND	GND	GND	25 GND	GND

CN204		CN204		CN204		CN204	
FG	e	d	c	b	a	Z	F
GND	GND	GND	GND	GND	GND	1 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	2 GND	GND
GND	GND	GND	GND	GND	GND	3 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	4 GND	GND
GND	GND	GND	GND	GND	GND	5 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	6 GND	GND
GND	GND	GND	GND	GND	GND	7 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	8 GND	GND
GND	GND	GND	GND	GND	GND	9 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	10 GND	GND
GND	GND	GND	GND	GND	GND	11 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	12 GND	GND
GND	GND	GND	GND	GND	GND	13 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	14 N.C.	N.C.
GND	GND	GND	GND	GND	GND	15 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	16 GND	GND
GND	GND	GND	GND	GND	GND	17 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	18 GND	GND
GND	GND	GND	GND	GND	GND	19 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	20 GND	GND
GND	GND	GND	GND	GND	GND	21 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	22 GND	GND
GND	GND	GND	GND	GND	GND	23 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	24 GND	GND
GND	GND	GND	GND	GND	GND	25 GND	GND

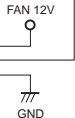
CN202		CN202		CN202		CN202	
FG	e	d	c	b	a	Z	F
GND	KFC3	KFC2	GND	KFC2	KFC0	1 GND	GND
N.C.	KFC7	KFC6	GND	KFC5	KFC4	2 GND	GND
GND	KFC8	KFC8	GND	KFC6	KFC6	3 GND	GND
N.C.	KFY3	KFY2	GND	KFY1	KFY0	4 GND	GND
N.C.	KFY8	KFY6	GND	KFY5	KFY4	5 GND	GND
GND	KFY9	KFY8	GND	KFY6	KFY5	6 GND	GND
N.C.	GND	GND	GND	KFY7	KFY6	7 GND	GND
GND	BGAC3	BGAC2	GND	BGAC1	BGAC0	8 GND	GND
N.C.	BGAC7	BGAC6	GND	BGAC5	BGAC4	9 GND	GND
GND	BGAC8	BGAC8	GND	BGAC6	BGAC5	10 GND	GND
N.C.	BGAY7	BGAY6	GND	BGAY5	BGAY4	11 GND	GND
N.C.	BGAY7	BGAY6	GND	BGAY5	BGAY4	12 GND	GND
GND	BGAY8	BGAY8	GND	BGAY6	BGAY5	13 GND	GND
N.C.	GND	GND	GND	BGAY7	BGAY6	14 GND	GND
GND	GBGC1	GBGC2	GND	GBGC0	GBGC0	15 GND	GND
N.C.	GBGC7	GBGC6	GND	GBGC5	GBGC4	16 GND	GND
GND	GBGC8	GBGC8	GND	GBGC6	GBGC5	17 GND	GND
N.C.	GBRY7	GBRY6	GND	GBRY5	GBRY4	18 GND	GND
N.C.	GBRY7	GBRY6	GND	GBRY5	GBRY4	19 GND	GND
GND	GBRY8	GBRY8	GND	GBRY6	GBRY5	20 GND	GND
N.C.	GND	GND	GND	GBRY7	GBRY6	21 GND	GND
GND	GBRY8	GBRY8	GND	GBRY6	GBRY5	22 GND	GND
N.C.	GND	GND	GND	GBRY7	GBRY6	23 GND	GND
GND	GND	GND	GND	GBRY8	GBRY8	24 GND	GND
N.C.	GND	GND	GND	GND	GND	25 GND	GND

CN01		CN01		CN01		CN01	
FG	e	d	c	b	a	Z	F
GND	+12V	+12V	+12V	+12V	+12V	1 GND	GND
N.C.	+12V	+12V	+12V	+12V	+12V	2 GND	GND
GND	+12V	+12V	+12V	+12V	+12V	3 GND	GND
N.C.	+12V	+12V	+12V	+12V	+12V	4 GND	GND
GND	GND	GND	GND	DC ERR	DC ERR	5 GND	GND
N.C.	GND	GND	GND	FUSE MIX	FUSE MIX	6 GND	GND
GND	GND	GND	GND	CK37A+	CK37A+	7 GND	GND
N.C.	GND	GND	GND	CK37A+	CK37A+	8 GND	GND
GND	GND	GND	GND	FMCKA+	FMCKA+	9 GND	GND
N.C.	GND	GND	GND	FMCKA+	FMCKA+	10 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	11 GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	12 N.C.	N.C.
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	13 N.C.	N.C.
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	14 N.C.	N.C.
GND	GND	GND	GND	CKX	CKX	15 GND	GND
N.C.	GND	GND	GND	GND	GND	16 GND	GND
N.C.	GND	GND	GND	GND	GND	17 GND	GND
N.C.	GND	GND	GND	GND	GND	18 GND	GND
N.C.	GND	GND	GND	GND	GND	19 GND	GND
N.C.	GND	GND	GND	GND	GND	20 GND	GND
N.C.	GND	GND	GND	GND	GND	21 GND	GND
N.C.	GND	GND	GND	GND	GND	22 GND	GND
N.C.	GND	GND	GND	GND	GND	23 GND	GND
N.C.	GND	GND	GND	GND	GND	24 GND	GND
N.C.	GND	GND	GND	GND	GND	25 GND	GND

MIX-42
(BKE-701)



CN2		
1	FAN 12V	
2	FANFAIL	
3	GND	



HN-276
Board No. 1-676-352-12

MB-873 (2/3)

CN1 CN10		CN1 CN10		CN1 CN10	
1		1		1	
2	FAN+12V	2	FAN+12V	2	FAN+12V
3	FAN+12V	3	FAN+12V	3	FAN+12V
4	FAN+12V	4	FAN+12V	4	FAN+12V
5	FAN ERR S	5	FAN ERR S	5	FAN ERR S
6	FAN ERR S	6	FAN ERR S	6	FAN ERR S
7	GND	7	GND	7	GND
8	GND	8	GND	8	GND

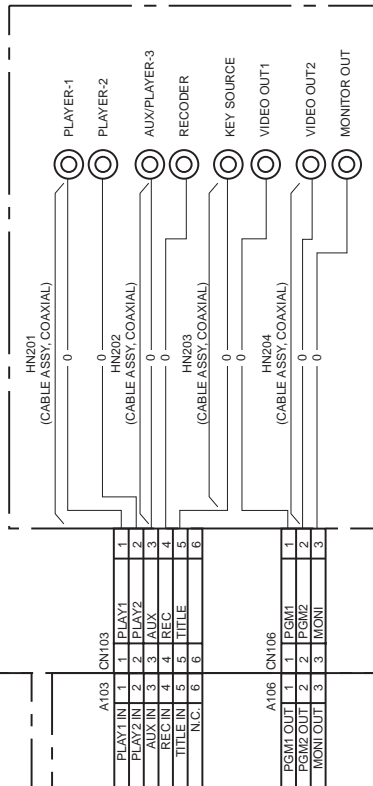
D		C		B		A		GND		A		GND		B		C		AC ERR	
AC ERR	GND	GND	GND	GND	GND	1	1	GND	GND	1	1	GND	GND	GND	GND	GND	GND	AC ERR	AC ERR
DC ERR	GND	GND	GND	GND	GND	2	2	GND	GND	2	2	GND	GND	GND	GND	GND	GND	DC ERR	DC ERR
FAN ERR	GND	GND	GND	GND	GND	3	3	GND	GND	3	3	GND	GND	GND	GND	GND	GND	FAN ERR	FAN ERR
G LED	GND	GND	GND	GND	GND	4	4	GND	GND	4	4	GND	GND	GND	GND	GND	GND	G LED	G LED
R LED	GND	GND	GND	GND	GND	5	5	GND	GND	5	5	GND	GND	GND	GND	GND	GND	R LED	R LED
IPC	(+5V)	(+5V)	(+5V)	(+5V)	(+5V)	6	6	GND	GND	6	6	GND	GND	GND	GND	GND	GND	IPC	IPC

D		C		B		A		GND		A		GND		B		C		D	
GND	GND	GND	GND	+12V	+12V	1	1	+12V	+12V	1	1	+12V	+12V	GND	GND	GND	GND	GND	GND
GND	GND	GND	GND	+12V	+12V	2	2	+12V	+12V	2	2	+12V	+12V	GND	GND	GND	GND	GND	GND
GND	GND	GND	GND	+12V	+12V	3	3	+12V	+12V	3	3	+12V	+12V	GND	GND	GND	GND	GND	GND
GND	GND	GND	GND	+12V	+12V	4	4	+12V	+12V	4	4	+12V	+12V	GND	GND	GND	GND	GND	GND
GND	GND	GND	GND	+12V	+12V	5	5	+12V	+12V	5	5	+12V	+12V	GND	GND	GND	GND	GND	GND
GND	GND	GND	GND	+12V	+12V	6	6	+12V	+12V	6	6	+12V	+12V	GND	GND	GND	GND	GND	GND

D		C		B		A		GND		A		GND		B		C		D	
+12V	+12V	+12V	+12V	+12V	+12V	1	1	+12V	+12V	1	1	+12V	+12V	+12V	+12V	+12V	+12V	+12V	+12V
+12V	+12V	+12V	+12V	+12V	+12V	2	2	+12V	+12V	2	2	+12V	+12V	+12V	+12V	+12V	+12V	+12V	+12V
FAN+12V	+12V	+12V	+12V	+12V	+12V	3	3	+12V	+12V	3	3	+12V	+12V	+12V	+12V	+12V	+12V	FAN+12V	FAN+12V
FAN+12V	+12V	+12V	+12V	+12V	+12V	4	4	+12V	+12V	4	4	+12V	+12V	+12V	+12V	+12V	+12V	FAN+12V	FAN+12V
FAN+12V	+12V	+12V	+12V	+12V	+12V	5	5	+12V	+12V	5	5	+12V	+12V	+12V	+12V	+12V	+12V	FAN+12V	FAN+12V
FAN+12V	+12V	+12V	+12V	+12V	+12V	6	6	+12V	+12V	6	6	+12V	+12V	+12V	+12V	+12V	+12V	FAN+12V	FAN+12V

D		C		B		A		GND		A		GND		B		C		D	
AC L	AC L	AC L	AC L	AC L	AC L	1	1	AC L	AC L	1	1	AC L	AC L	AC L	AC L	AC L	AC L	AC L	AC L
AC L	AC L	AC L	AC L	AC L	AC L	2	2	AC L	AC L	2	2	AC L	AC L	AC L	AC L	AC L	AC L	AC L	AC L
AC L	AC L	AC L	AC L	AC L	AC L	3	3	AC L	AC L	3	3	AC L	AC L	AC L	AC L	AC L	AC L	AC L	AC L
AC L	AC L	AC L	AC L	AC L	AC L	4	4	AC L	AC L	4	4	AC L	AC L	AC L	AC L	AC L	AC L	AC L	AC L
AC L	AC L	AC L	AC L	AC L	AC L	5	5	AC L	AC L	5	5	AC L	AC L	AC L	AC L	AC L	AC L	AC L	AC L
AC L	AC L	AC L	AC L	AC L	AC L	6	6	AC L	AC L	6	6	AC L	AC L	AC L	AC L	AC L	AC L	AC L	AC L

D		C		B		A		GND		A		GND		B		C		D	
AC N	AC N	AC N	AC N	AC N	AC N	1	1	AC N	AC N	1	1	AC N	AC N	AC N	AC N	AC N	AC N	AC N	AC N
AC N	AC N	AC N	AC N	AC N	AC N	2	2	AC N	AC N	2	2	AC N	AC N	AC N	AC N	AC N	AC N	AC N	AC N
AC N	AC N	AC N	AC N	AC N	AC N	3	3	AC N	AC N	3	3	AC N	AC N	AC N	AC N	AC N	AC N	AC N	AC N
AC N	AC N	AC N	AC N	AC N	AC N	4	4	AC N	AC N	4	4	AC N	AC N	AC N	AC N	AC N	AC N	AC N	AC N
AC N	AC N	AC N	AC N	AC N	AC N	5	5	AC N	AC N	5	5	AC N	AC N	AC N	AC N	AC N	AC N	AC N	AC N
AC N	AC N	AC N	AC N	AC N	AC N	6	6	AC N	AC N	6	6	AC N	AC N	AC N	AC N	AC N	AC N	AC N	AC N

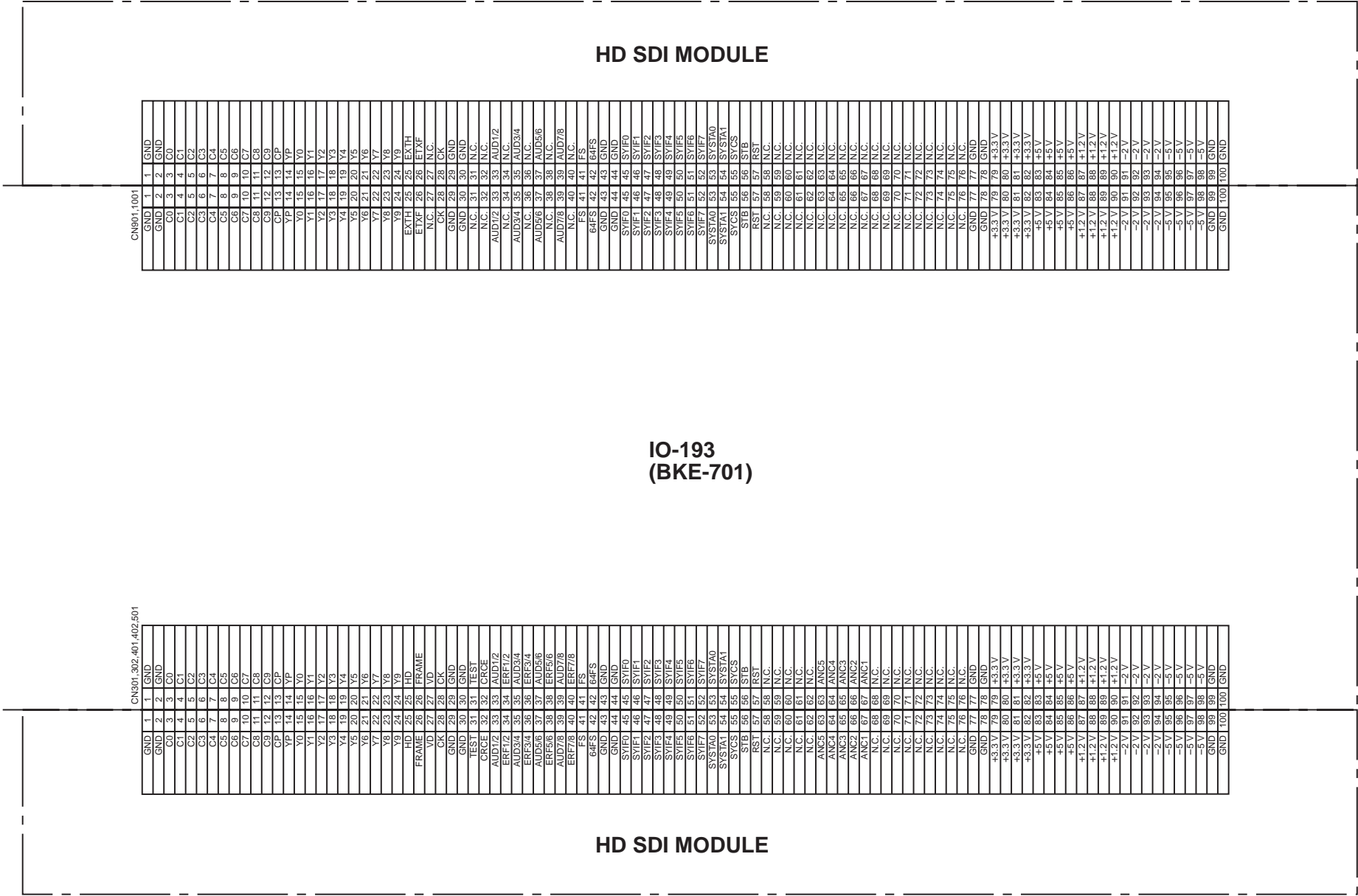


FG		e	d	c	b	a	CNT05 CNT06				A	B	C	D	E	F
GND	GND	GND	GND	GND	GND	GND	1	1	GND	GND	GND	GND	GND			
GND	GND						2	2	GND							GND
GND	GND						3	3	GND							GND
N.C.	N.C.						4	4	GND							GND
GND	GND						5	5	GND							GND
N.C.	N.C.	GND	GND	GND	GND	GND	6	6	GND				GND			GND
GND	GND	GND	GND	GND	GND	GND	7	7	GND				C_SPR2	C_SPR3		GND
N.C.	N.C.						8	8	GND				C_SPR6	C_SPR7		GND
GND	GND						9	9	GND				C_SPR10	C_SPR11		GND
N.C.	N.C.						10	10	GND				C_SPR14	C_SPR15		GND
GND	GND						11	11	GND				C_SPR18	STROBE		GND
N.C.	N.C.						12	12	N.C.				N.C.	N.C.		N.C.
N.C.	N.C.						13	13	N.C.				N.C.	N.C.		N.C.
N.C.	N.C.						14	14	N.C.				N.C.	N.C.		N.C.
GND	GND						15	15	GND				GND	GND		N.C.
N.C.	N.C.	DIR	DIR	GND	GND	DIR	16	16	GND				DIR	RST-		GND
GND	GND	STATUS1	STATUS0	GND	MIXSEL	IOSEL	17	17	GND				STATUS0	STATUS1		GND
N.C.	ADRS3	ADRS2	ADRS0	GND	ADRS1	ADRS0	18	18	GND				ADRS2	ADRS3		GND
GND	ADRS7	ADRS6	ADRS5	GND	ADRS5	ADRS4	19	19	GND				ADRS6	ADRS7		GND
N.C.	N.C.			GND	GND	GND	20	20	GND				GND	GND		GND
N.C.	DATA3	DATA2	DATA1	GND	DATA1	DATA0	21	21	GND				DATA2	DATA3		GND
N.C.	DATA7	DATA6	DATA5	GND	DATA5	DATA4	22	22	GND				DATA6	DATA7		GND
GND	DATA10	DATA9	DATA8	GND	DATA8	DATA7	23	23	GND				DATA9	DATA10		GND
N.C.	DATA15	DATA14	DATA13	GND	DATA13	DATA12	24	24	GND				DATA14	DATA15		GND
GND	GND	GND	GND	GND	DATA12	DATA11	25	25	GND				GND	GND		GND

[illegible]

FG		e		d		c		b		a		Z		A		B		C		D		E		F	
GND	RFC3	KFC2	GND	RFC1	KFC0	1	GND	KFC0	1	GND	KFC0	1	GND	KFC0	1	GND	KFC1	GND	GND	KFC2	GND	RFC3	GND	KFC7	GND
N.C.	KFC7	KFC6	GND	KFC5	KFC4	2	GND	KFC3	KFC2	3	GND	KFC1	2	GND	KFC0	1	GND	KFC3	GND	KFC6	GND	KFC7	GND	KFC8	GND
N.C.	KFC8	KFC7	GND	KFC6	KFC5	3	GND	KFC4	KFC3	4	GND	KFC2	3	GND	KFC1	2	GND	KFC5	GND	KFC8	GND	KFC9	GND	KFC0	GND
N.C.	KFC9	KFC8	GND	KFC7	KFC6	4	GND	KFC5	KFC4	5	GND	KFC3	4	GND	KFC2	3	GND	KFC8	GND	KFC9	GND	KFC0	GND	KFC1	GND
N.C.	KFC0	KFC9	GND	KFC8	KFC7	5	GND	KFC6	KFC5	6	GND	KFC4	5	GND	KFC3	4	GND	KFC9	GND	KFC0	GND	KFC2	GND	KFC3	GND
N.C.	KFC1	KFC0	GND	KFC9	KFC8	6	GND	KFC7	KFC6	7	GND	KFC5	6	GND	KFC4	5	GND	KFC0	GND	KFC1	GND	KFC3	GND	KFC4	GND
N.C.	KFC2	KFC1	GND	KFC0	KFC9	7	GND	KFC8	KFC7	8	GND	KFC6	7	GND	KFC5	6	GND	KFC1	GND	KFC2	GND	KFC3	GND	KFC5	GND
N.C.	KFC3	KFC2	GND	KFC1	KFC0	8	GND	KFC9	KFC8	9	GND	KFC7	8	GND	KFC6	7	GND	KFC2	GND	KFC3	GND	KFC4	GND	KFC6	GND
N.C.	KFC4	KFC3	GND	KFC2	KFC1	9	GND	KFC0	KFC9	10	GND	KFC8	9	GND	KFC7	8	GND	KFC3	GND	KFC4	GND	KFC5	GND	KFC7	GND
N.C.	KFC5	KFC4	GND	KFC3	KFC2	10	GND	KFC1	KFC0	11	GND	KFC9	10	GND	KFC8	9	GND	KFC4	GND	KFC5	GND	KFC6	GND	KFC8	GND
N.C.	KFC6	KFC5	GND	KFC4	KFC3	11	GND	KFC2	KFC1	12	GND	KFC0	11	GND	KFC9	10	GND	KFC5	GND	KFC6	GND	KFC8	GND	KFC9	GND
N.C.	KFC7	KFC6	GND	KFC5	KFC4	12	GND	KFC3	KFC2	13	GND	KFC1	12	GND	KFC0	11	GND	KFC6	GND	KFC7	GND	KFC9	GND	KFC0	GND
N.C.	KFC8	KFC7	GND	KFC6	KFC5	13	GND	KFC4	KFC3	14	GND	KFC2	13	GND	KFC1	12	GND	KFC9	GND	KFC0	GND	KFC2	GND	KFC1	GND
N.C.	KFC9	KFC8	GND	KFC7	KFC6	14	GND	KFC5	KFC4	15	GND	KFC3	14	GND	KFC2	13	GND	KFC7	GND	KFC9	GND	KFC0	GND	KFC2	GND
N.C.	KFC0	KFC9	GND	KFC8	KFC7	15	GND	KFC6	KFC5	16	GND	KFC4	15	GND	KFC3	14	GND	KFC8	GND	KFC9	GND	KFC0	GND	KFC3	GND
N.C.	KFC1	KFC0	GND	KFC9	KFC8	16	GND	KFC7	KFC6	17	GND	KFC5	16	GND	KFC4	15	GND	KFC9	GND	KFC0	GND	KFC2	GND	KFC4	GND
N.C.	KFC2	KFC1	GND	KFC0	KFC9	17	GND	KFC8	KFC7	18	GND	KFC6	17	GND	KFC5	16	GND	KFC0	GND	KFC1	GND	KFC3	GND	KFC5	GND
N.C.	KFC3	KFC2	GND	KFC1	KFC0	18	GND	KFC9	KFC8	19	GND	KFC7	18	GND	KFC6	17	GND	KFC1	GND	KFC2	GND	KFC4	GND	KFC6	GND
N.C.	KFC4	KFC3	GND	KFC2	KFC1	19	GND	KFC0	KFC9	20	GND	KFC8	19	GND	KFC7	18	GND	KFC2	GND	KFC3	GND	KFC5	GND	KFC7	GND
N.C.	KFC5	KFC4	GND	KFC3	KFC2	20	GND	KFC1	KFC0	21	GND	KFC9	20	GND	KFC8	19	GND	KFC3	GND	KFC4	GND	KFC5	GND	KFC9	GND
N.C.	KFC6	KFC5	GND	KFC4	KFC3	21	GND	KFC2	KFC1	22	GND	KFC0	21	GND	KFC9	20	GND	KFC4	GND	KFC5	GND	KFC6	GND	KFC9	GND
N.C.	KFC7	KFC6	GND	KFC5	KFC4	22	GND	KFC3	KFC2	23	GND	KFC1	22	GND	KFC0	21	GND	KFC5	GND	KFC6	GND	KFC8	GND	KFC0	GND
N.C.	KFC8	KFC7	GND	KFC6	KFC5	23	GND	KFC4	KFC3	24	GND	KFC2	23	GND	KFC1	22	GND	KFC6	GND	KFC7	GND	KFC9	GND	KFC1	GND
N.C.	KFC9	KFC8	GND	KFC7	KFC6	24	GND	KFC5	KFC4	25	GND	KFC3	24	GND	KFC2	23	GND	KFC7	GND	KFC9	GND	KFC0	GND	KFC2	GND
N.C.	KFC0	KFC9	GND	KFC8	KFC7	25	GND	KFC6	KFC5	26	GND	KFC4	25	GND	KFC3	24	GND	KFC8	GND	KFC9	GND	KFC0	GND	KFC3	GND

FG		e	d	c	b	a	CNOT			Z	A	B	C	D	E	F
GND	GND	+12V		+12V	+12V	+12V	1	1	GND	+12V	+12V	+12V	+12V	+12V	+12V	GND
+12V	+12V	+12V	+12V	+12V	+12V	+12V	2	2	GND	+12V	+12V	+12V	+12V	+12V	+12V	GND
N.C.	GND	+12V	+12V	+12V	+12V	+12V	3	3	GND	+12V	+12V	+12V	+12V	+12V	+12V	GND
N.C.	+12V	+12V	+12V	+12V	+12V	+12V	4	4	GND	+12V	+12V	+12V	+12V	+12V	+12V	GND
GND	GND				DC ERR		5	5	GND			DC ERR				GND
N.C.	N.C.	GND	GND	GND	GND	GND	6	6	GND	GND	GND	GND	GND	GND	GND	GND
GND	GND	FUSE IO	GND	GND	GND	GND	7	7	GND	GND	GND	GND	GND	FUSE IO	GND	GND
N.C.	N.C.	CK37B+					8	8	GND					CK37B+	GND	GND
GND	GND	GND	GND	GND	GND	GND	9	9	GND	GND	GND	GND	GND	GND	GND	GND
N.C.	GND	GND	GND	GND	GND	GND	10	10	GND	GND	GND	GND	GND	GND	GND	GND
GND	GND	GND	GND	GND	T SPR1	T SPR1	11	11	GND	T SPR0	T SPR0	T SPR1	GND	GND	GND	GND
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	12	12	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	13	13	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	14	14	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
GND	GND	GND	GND	GND	FMCKB+	FMCKB+	15	15	GND	FMCKB+	FMCKB+	FMCKB+	GND	T SPR2	T SPR3	GND
N.C.	N.C.	CGCS	CGDATA	GND	CGCLK	CGX1	16	16	GND	CGX	CGX	CGCLK	GND	CGDATA	CGCS	GND
GND	GND	GND	GND	GND	GND	GND	17	17	GND	GND	GND	GND	GND	GND	GND	GND
N.C.	N.C.						18	18	GND							GND
GND	GND						19	19	GND							GND
N.C.	N.C.						20	20	GND							GND
GND	GND	GND	GND	GND	GND	GND	21	21	GND			GND	GND	GND	GND	GND
N.C.	N.C.	RS12	RS10	RS11	RS10	RS10	22	22	GND	RS10	RS10	RS11	GND	RS12	RS13	GND
GND	GND	CGCS	CGDATA	CGCLK	CGX1	CGX1	23	23	GND	CGX1	CGX1	CGCLK	GND	CGDATA	CGCS	GND
N.C.	N.C.	RS17	RS16	RS17	RS16	RS16	24	24	GND	RS16	RS16	RS17	GND	RS17	RS18	GND
GND	GND	CGCS	CGDATA	GND	GND	GND	25	25	GND	GND	GND	GND	GND	GND	GND	GND
N.C.	N.C.	GND	GND	GND	GND	GND	26	26	GND							GND



DP-309

CN101	
KEY RETB7	1
KEY RETB6	2
KEY RETB5	3
KEY RETB4	4
KEY RETB3	5
KEY RETB2	6
KEY RETB1	7
KEY RETB0	8
KEY SCAN12	9
+12 V	10
STB8 CLR7	11
STB7 CLR6	12
STB6 CLR5	13
STB5 CLR4	14
STB4 CLR3	15
STB3 CLR2	16
GND	17
LED CLK	18
GND	19
LED DATAB	20
GND	21
GND	22
GND	23
+5 V	24
+5 V	25
+5 V	26

CN102	
1	+5 V
2	+5 V
3	+5 V
4	GND
5	GND
6	GND
7	LED DATAB
8	GND
9	LED CLKB
10	GND
11	STB3 CLR2
12	STB4 CLR3
13	STB5 CLR4
14	STB6 CLR5
15	STB7 CLR6
16	STB8 CLR7
17	+12 V
18	KEY SCAN12
19	KEY RETB0
20	KEY RETB1
21	KEY RETB2
22	KEY RETB3
23	KEY RETB4
24	KEY RETB5
25	KEY RETB6
26	KEY RETB7

KEY ASSY

DP-314

CN101	
+5 V	1
+5 V	2
+5 V	3
+5 V	4
GND	5
GND	6
GND	7
GND	8
DB5	9
DB6	10
DB3	11
DB4	12
DB1	13
DB2	14
AB1	15
DB0	16
ASCII1 CSN	17
AB0	18
ASCII3 CSN	19
ASCII2 CSN	20
GND	21
ASCII4 CSN	22
ASCII CLK	23
GND	24
GND	25
GND	26
LED ASCII2	27
LED ASCII1	28
LED ASCII4	29
LED ASCII3	30
LED ASCII6	31
LED ASCII5	32
LED ASCII8	33
LED ASCII7	34
LED ASCII10	35
LED ASCII9	36
LED ASCII12	37
LED ASCII11	38
LED ASCII14	39
LED ASCII13	40

CN103	
+5 V	1
+5 V	2
+5 V	3
+5 V	4
GND	5
GND	6
GND	7
GND	8
DB5	9
DB6	10
DB3	11
DB4	12
DB1	13
DB2	14
AB1	15
DB0	16
ASCII1 CSN	17
AB0	18
ASCII3 CSN	19
ASCII2 CSN	20
GND	21
ASCII4 CSN	22
ASCII CLK	23
GND	24
GND	25
GND	26
LED ASCII2	27
LED ASCII1	28
LED ASCII4	29
LED ASCII3	30
LED ASCII6	31
LED ASCII5	32
LED ASCII8	33
LED ASCII7	34
LED ASCII10	35
LED ASCII9	36
LED ASCII12	37
LED ASCII11	38
LED ASCII14	39
LED ASCII13	40

CN203	
+5 V	1
KNOB1 B	2
KNOB1 A	3
GND	4

CN204	
+5 V	1
KNOB2 B	2
KNOB2 A	3
GND	4

CN205	
+5 V	1
KNOB3 B	2
KNOB3 A	3
GND	4

KNOB-LEFT

KNOB-CENTER

KNOB-RIGHT

HN303
(IFTOKY)

CN101	
+12 V	1
+12 V	2
+12 V	3
+12 V	4
CLUTCH1	5
CLUTCH1	6
CLUTCH2	7
CLUTCH2	8
+5 V	9
+5 V	10
+5 V	11
+5 V	12
+5 V	13
+5 V	14
+5 V	15
+5 V	16
GND	17
GND	18
GND	19
GND	20
GND	21
GND	22
GND	23
GND	24
DB7	25
DB6	26
DB5	27
DB4	28
DB3	29
DB2	30
DB1	31
AB4	32
AB3	33
AB2	34
AB1	35
AB0	36
GND	37
GND	38
LED DATA	39
LED CLK	40
GND	41
LED SCLK	42
SWLED CSN	43
LED SCAN	44
SCAN1 CSN	45
SCAN2 CSN	46
RETURN CSN	47
CT1 CSN	48
CT2 CSN	49
CT3 CSN	50
CTKNOB_RST	51
CTDIALR_RST	52
CTDIALR_RST	53
ASCII1 CSN	54
ASCII2 CSN	55
ASCII3 CSN	56
ASCII4 CSN	57
GND	58
GND	59
ASCII CLK	60

CN201	
+12 V	1
+12 V	2
CLUTCH1	3
CLUTCH2	4
+5 V	5
+5 V	6
+5 V	7
+5 V	8
GND	9
GND	10
GND	11
GND	12
DB7	13
DB5	14
DB3	15
DB1	16
AB4	17
AB2	18
AB0	19
LED DATA	20
SWLED CSN	21
SCAN1 CSN	22
RETURN CSN	23
CT2 CSN	24
CTKNOB_RST	25
CTDIALR_RST	26
ASCII2 CSN	27
ASCII4 CSN	28
GND	29
GND	30
+12 V	31
+12 V	32
CLUTCH1	33
CLUTCH2	34
+5 V	35
+5 V	36
+5 V	37
+5 V	38
GND	39
GND	40
GND	41
GND	42
DB6	43
DB4	44
DB2	45
DB0	46
AB3	47
AB1	48
GND	49
LED CLK	50
LED SCLK	51
LED SCAN	52
SCAN2 CSN	53
CT1 CSN	54
CT3 CSN	55
CTDIALR_RST	56
ASCII1 CSN	57
ASCII3 CSN	58
GND	59
ASCII CLK	60

CN301	
GND	1
+12 V	2
TX (+)	3
GND	4
RX (-)	5
+12 V	6
+12 V	7
USB (-)	8
GND	9
GND	10
GND	11
GND	12
GND	13
+12 V	14
+12 V	15
TX (-)	16
RX (+)	17
+12 V	18
GND	19
GND	20
USB (+)	21
GND	22
+12 V	23
+12 V	24
GND	25

CN302	
+5 V	1
USB (+)	2
USB (-)	3
GND	4

IF-766

PANEL

Control Panel Unit
Frame Wiring (4/4)
DET-11A

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)

